

Chapter 15

The Hepton Cycle

The Hepton Septiform Cycle

There are many different eclipse cycles. We've looked closely at the Saros and the Metonic in two individual chapters. We focus here on the Hepton Cycle. Among the 26 eclipses that are currently returning cyclically to bring complete eclipses, fourteen belong to two ongoing Hepton Cycles. They will be referred to as Hepton One and Hepton Two.

This is the first time the Hepton Cycle has been carefully chronicled. Upon consideration of the solar eclipse phenomenon, I've come to believe that the Hepton Cycle is a Maximum Expression of solar eclipse cycles, which are themselves maximum expressions of peculiarity in the natural visible cosmos.

The Hepton facts:

Hepton means "7-sided". There are 7 eclipses in each Hepton cycle.

These 7 eclipses appear at intervals of exactly 7 eclipse seasons, or 1211 days apart...(which is 3 1/2 eclipse years. Alternating Hepton eclipses are 2422 days apart, or 7 eclipse years.

Heptons nearly always occur on the same day of the week (with occasional orbital variation). In their current cycle, Hepton One eclipses occur on Monday and Hepton Two eclipses happen on Saturday.

It takes 7266 days for a Hepton Cycle to run through all seven eclipses from beginning to end. A full Hepton Cycle is 21 eclipse years, obviously a multiple of seven and three, the two most important sacred numbers in Christianity and ancient wisdom.

7266 days equals 19 solar years, 10 months and 22 days, or 20 solar years minus 40 days.

A full Hepton has a lifespan composed of 10 repetitions of the same 7 Saros Cycles, or 70 eclipses altogether over the course of exactly 210 eclipse years.

Hepton One is currently composed exclusively of seven total eclipses.

Hepton Two currently has five ring of fires and two totals.

History: The Hepton Cycle was named by George Van den Beergh in the 1950's. We know this fact based on its mention at a couple of online science sites. Van Den Beergh invented the numbering system for the Saros and named several of its patterns and cycles. But finding a copy of Van den Beergh's actual work, published as "Periodicity and Variation in Solar Eclipses" seems impossible. Not only that, but there are no directly quoted excerpts or pdf's of that seminal work available online.

Obviously, since no material exists, I don't know the depth George van den Beergh explored the Hepton, but it's highly unlikely it was chronicled to the extent I do here. His book appeared in the 1950's, well before the Hepton began to put on the show it is doing now. Also, Van den Beergh was busy chronicling dozens of different cycles.

Our current Hepton One Cycle's peculiarity grows over the course of its lifetime. In my estimation, it reaches maximum expression with what I name "Hepton One 8th Chapter", the Monday eclipses of 2017 to 2037.

The repetition of sevens cannot help but bring to mind the 7 year and 3 and 1/2-year timekeeping of final judgment expressed in the Bible, as well as all the sevens in the Bible in general. Just as interesting in my mind is the relation of the seven to music, as in the 7 distinct notes of the scale. There is an 8th note, or octave, pattern in the Hepton too, as the first eclipse in the cycle repeats again before the cycle ends.

Both current Heptons are composed of complete eclipses. A couple of partials are included in our sthe beginning of Hepton Two as it grew into completeness, to illustrate how the cycles come into maturity.

Where does one begin with such an unusual and unstudied cyclic phenomenon? One must choose a moment in time and begin there. It turns out our current Hepton One had its beginning just before the dawn of this Century, with Saros 145's first complete eclipse, a ring of fire on June 6 1891 (you'll recognize the June 6 date as 77 years before the martyrdom of Robert Kennedy). You will recognize the Saros 145 personality from many great eclipses, including the August 21 2017 USA Divided.

Heptons roll into and then out of existence by maturing Saros Eclipses on one end (from partial to complete) and decaying eclipses on the other end (from complete to partials). For 210 eclipse years they are fully composed of complete eclipses.

Important!!! The Hepton Cycles overlap! They overlap each other and they overlap themselves. That is because a Saros cycle is 19 eclipse years, but it takes a Hepton 21 eclipse years to complete itself. Study and you'll understand. At first, I suggest you let it flow like a song.

We find that the Saros Personalities (numbers) go backwards by threes as they progress in the Hepton.

HEPTON ONE (Monday)--Saros 145 ,142 , 139, 136, 133, 130 and 127

HEPTON TWO (Saturday)--Saros 146 , 143, 140, 137, 134, 131 and 128

All three current USA eclipses in 2017, 2023 and 2024 are among the Hepton characters.

I follow Hepton One's "book" through Eight Chapters, from 1909 to 2037. I include a Nineveh Clause 9th chapter, 2035 to 2055, for comparison.

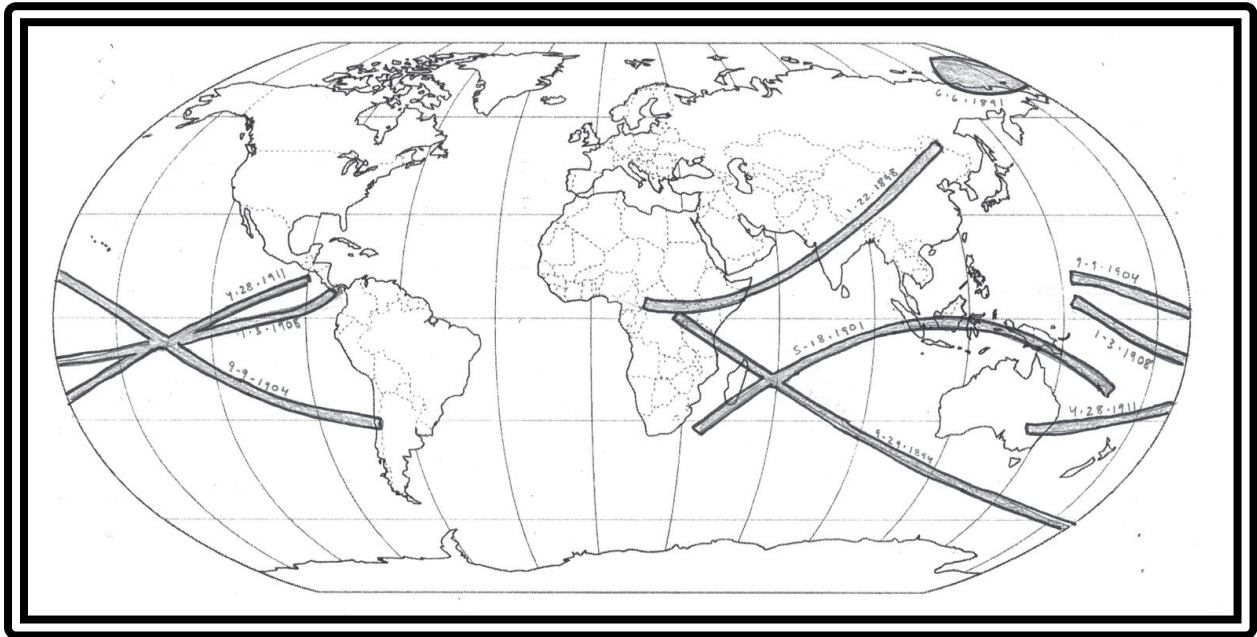
I follow Hepton Two from 1902 to 2048 for eight chapters. 146 years. 56 eclipses, of which 54 are complete. You will see the same eclipses we have already been studying and thus encounter some repetitive information already mentioned with the history chapters.

The Hepton Two series contain partial eclipses in 1902 and 1920, both from Saros 146.

Many of the Greatest eclipses of the 20th Century were not Heptons, but that's all part of the riddle too. During any 19-eclipse year Saros Cycle, 12 complete eclipses occur outside the Hepton. They also are part of other cycles.

I believe there is much meaning in this cosmic work of the Creator God.

We now begin with the history of Hepton One.



Hepton One Chapter One -Saturdays 1891 to 1911

1891 Jun 6 Extreme NE USSR Ring of Fire (Saros 145) Last RFK Death Day Metonic occurs 77 years before his assassination. Saros 145's first complete eclipse. Birth of current Hepton One.

1894 Sep 29 Equatorial Africa to South Pacific Total (Saros 142) 1211 days after the last eclipse, as all these eclipses will be spaced, 7 eclipse seasons (3 and 1/2 eclipse years) apart.

1898 Jan 22 Equatorial Africa/ India/China Total (Saros 139) This eclipse covers the most continental land of any eclipse in this Hepton. It bisects three areas all in the midst of European Colonization.

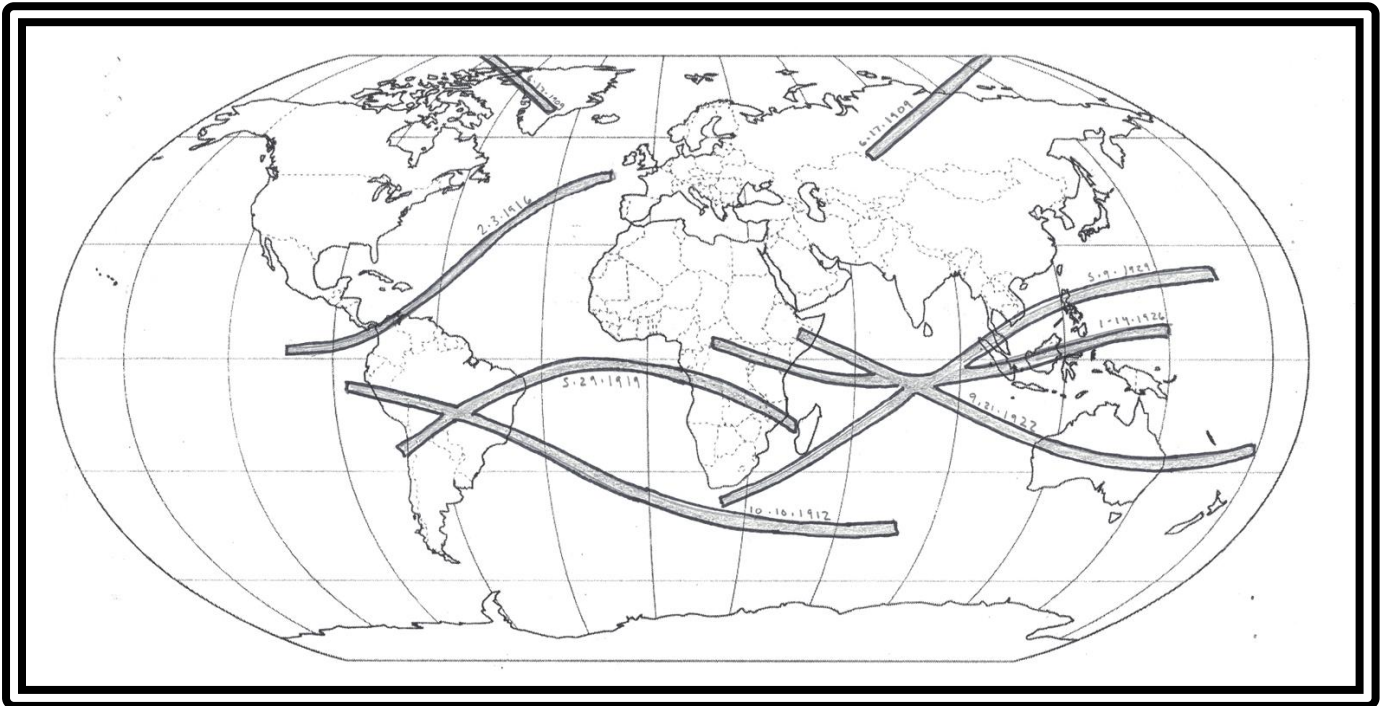
1901 May 18 Madagascar to Malay Archipelago Total (Saros 136) Covered in depth in world eclipses. 79 years to the day before Mount Saint Helens erupted.

1904 Sep 9 Nearly All Ocean to Chile Total (Saros 133) No land except sunrise over a few of the Marshall Islands and sunset over Copiapo, Chile—the only town of any size in the eclipse path, in the barren Atacama Desert. Copiapo was devastated 14 years later by an earthquake on Dec 4, 1918, which occurred the day after a Ring of Fire eclipse on Dec 3 1918 (76% coverage), one of the few eclipse/earthquake synchronicities in the survey.

1908 Jan 5 Ocean and sunset in Costa Rica Total (Saros 130) Almost entirely over Pacific ocean and entering just one country, this time Costa Rica, totality ending just past Puntarenas (Sand Point)

1911 Apr 28 Australia across the Ocean Total (Saros 127) Hepton lingers almost entirely over Pacific, beginning in extreme southwest Australia south of Canberra, and ending just west of Central America.

Our current Hepton One is born, as Saros 145 has its first complete eclipse in 1891. Four of these eclipses were almost entirely over Ocean. One was confined to the northern polar region.



Hepton One Chapter Two -Thursdays 1909 to 1929

Chapter Two begins (in 1909) before Chapter One ends (in 1911). Hepton chapters overlap, with the first member beginning (145) the second chapter before the last member (127) finishes the first. That's how the wheel of time rolls. A Saros is 19 eclipse years while the Hepton is 21 eclipse years. This Chapter contains one of only two 7 year overland total crosses in the survey prior to the Turkish Cross, the 1912 to 1919 intersection over the Amazon of western Brazil.

1909 Jun 17 Hybrid Russia to Greenland (Saros 145) Reaching brief totality for the first time at maximum of 24 seconds in some places, Saros 145 has its only hybrid eclipse.

1912 Oct 10 Total South America to Indian Ocean (Saros 142) Straddling border between Colombia and Ecuador 420 years minus two days after Columbus landed in New World, path heads to Brazil, exiting roughly midway between Rio De Janeiro and and Sao Paulo.

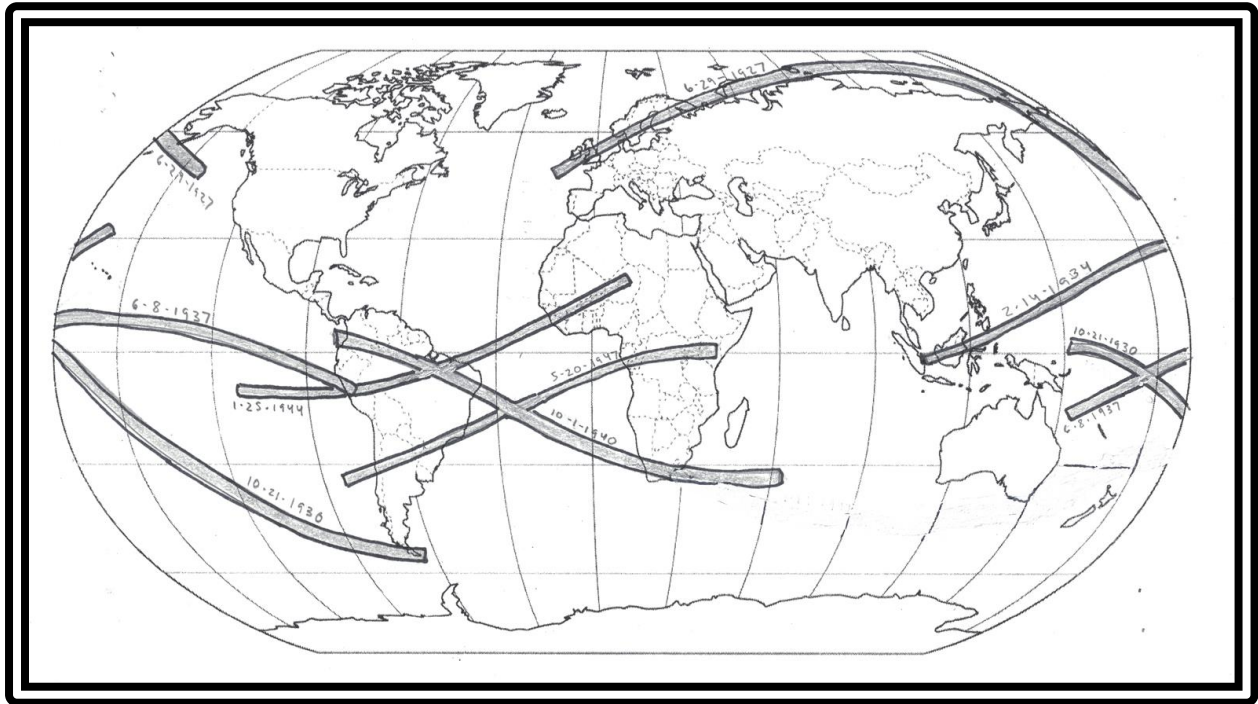
1916 Feb 3 Total Isthmus towards Europe (Saros 139) Eclipse Colombia and Venezuela---totality in Medellin. Crosses the Atlantic to end just offshore of Europe 18 days before the Battle of Verdun...92% totality on coast of Ireland. 60% on coast of France.

1919 May 29 Total Einstein's Eclipse/ JFK Birthday (Saros 136) Discussed in world eclipses.

1922 Sep 21 Autumn Equinox (Saros 133) Horn of Africa to Australia, exiting south of Gold Coast.

1926 Jan 14 MLK Premonition Africa to Malay 3 years and one day before birth of Martin Luther King, Eclipse travels from very near the geographical center of Africa to Malay Archipelago.

1929 May 9 Ocean to Malay The first eclipse on earth after birth of MLK on Jan 15 1929. Mostly ocean from below South Africa then crosses Malay Archipelago.



Hepton One Chapter Three -Wednesdays 1927 to 1947

This is the first Hepton One Chapter that consists of all true total eclipses, as 145 goes total. Sign of Pisces over South America. True Heptons intersect in Atlantic and Pacific.

1927 Jun 29 Liverpool Sunrise to America (Saros 145) First Total for the Great Saros 145. Last Total to bisect Britain (the extreme south of England sees totality in 1999). See personalities section.

1930 Oct 21 Pacific to Chile (Saros 142) avoids all land masses as it crosses the Pacific to come ashore and die as a thin totality in extreme southern Chile, closest city Port Natales or "Nativity."

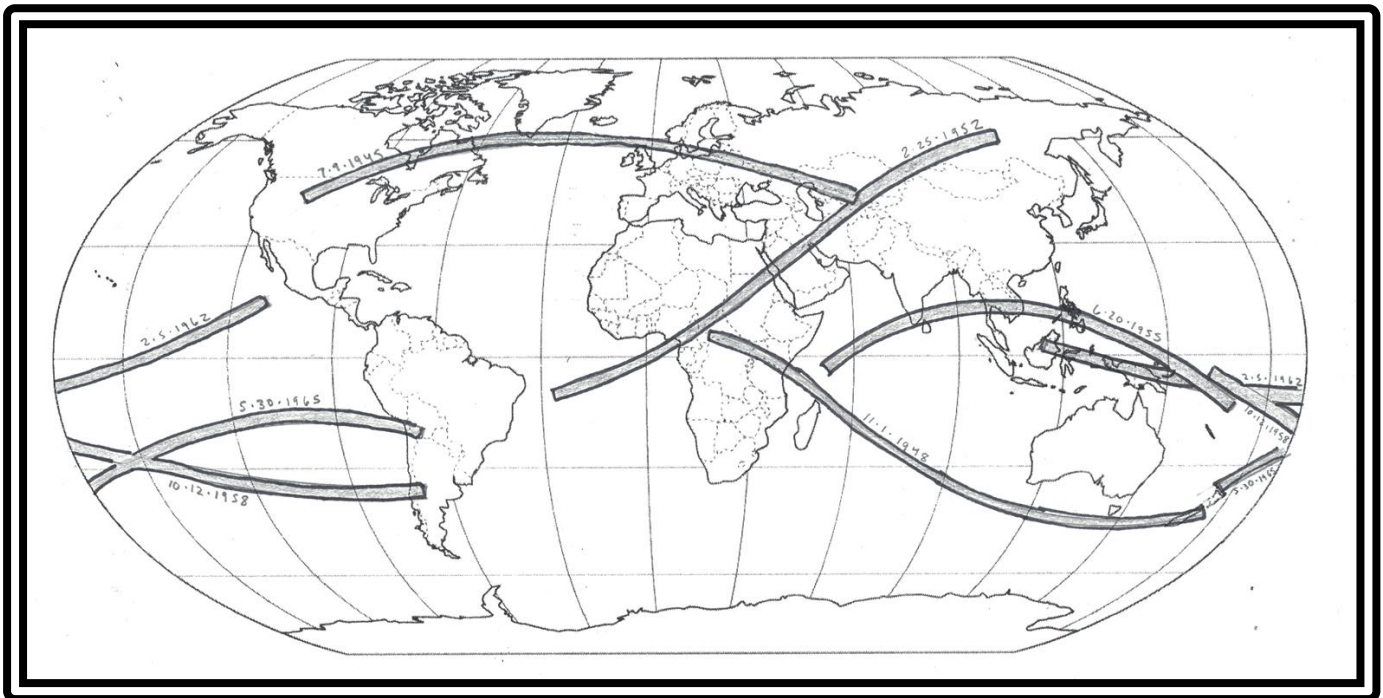
1934 Feb 14 Valentine's Day in Borneo (Saros 139) Begins on Valentine's Day in Sumatra, crosses Date Line in Pacific to become 2-13 eclipse for virtually nobody. Ends before reaching Canada.

1937 Jun 8 Again almost all Ocean (Saros 136) Longest solar eclipse (at 7 minutes 5 seconds) since 1098 takes a trip across open ocean. Ends in Peru, with centerline at town of La Libertad (Liberty), totality ending at sunset over Madre de Dios (Mother of God) National Park. Ends just before one of humanities most mysterious achievements--90% coverage at the amazing Nazca Lines.

1940 Oct 1 South America to Africa (Saros 133) 13 months after beginning of WWII...exits South America near Fortaleza ("strength"): and Natal ("Nativity"). 8 days before John Lennon was born.

1944 Jan 25 South America to Africa (Saros 130) Saros 130 heads the opposite convex after exiting South America at essentially the same place as the last Hepton did 1211 days before.

1947 May 20 Columbus Death Day South America to Africa (Saros 127) South America to Africa. Totality begins just west of Chile. Totality in Santiago. Crosses Atlantic into Africa with totality in Kampala, Uganda and Nairobi Kenya. 441st anniversary of death of Columbus on May 20, 1506.



Hepton One Chapter Four -Mondays 1945 to 1965

1945 Jul 9 USA to USSR Atom Bomb Eclipse (Saros 145) One week before detonation of first atomic bomb. Looked at in depth in USA and world eclipses.

1948 Nov 1 Africa to Pacific (Saros 142) Begins very near equator. Ends just before New Zealand.

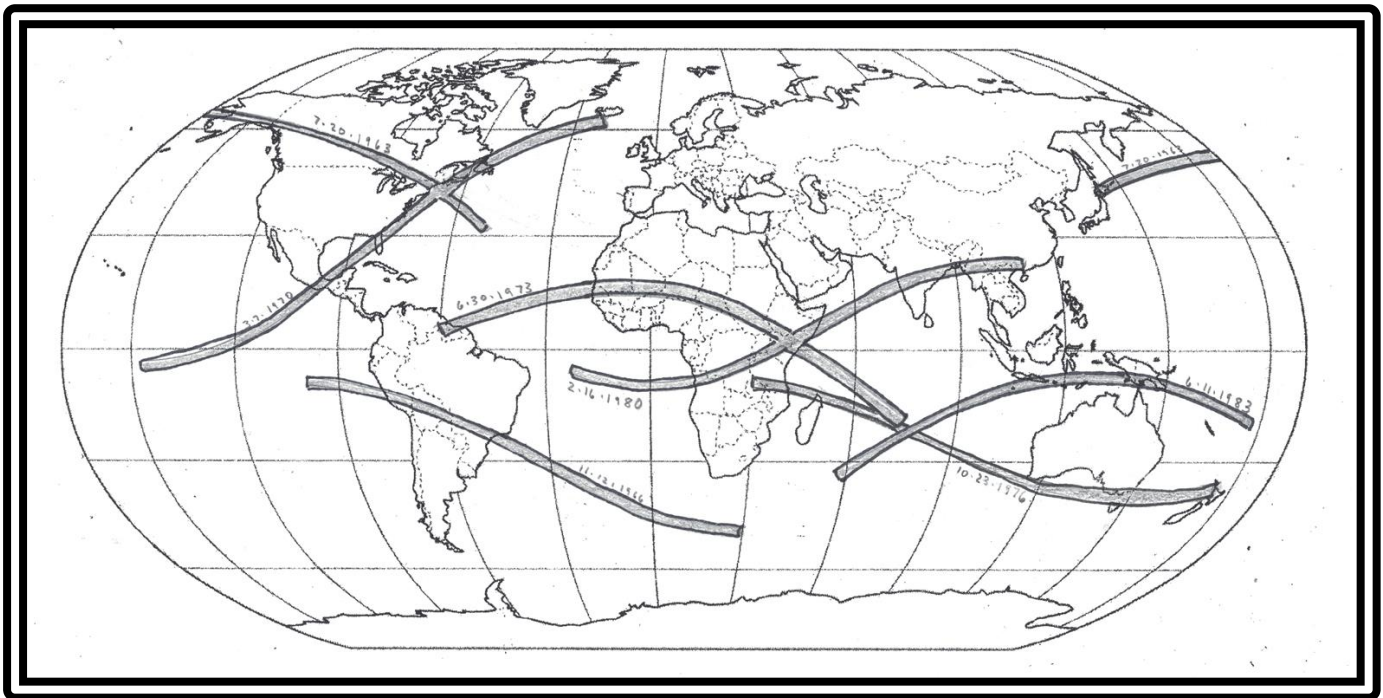
1952 Feb 25 Shahrud Tav (Saros 139) Discussed at length in World Eclipses. Traverses Africa (Totality in Khartoum, Sudan), then crosses Arabia (totality in Jeddah/ 99% in Mecca), crosses Iraq near Basra, and then Iran (totality in Shahrud) ends in Russia.

1955 Jun 20 Southeast Asia/ Vietnam Summer Solstice Eve (Saros 136) Discussed at length in World Eclipses. Longest total eclipse in a thousand years. Part of the unprecedented Southeast Asia Swarm.

1958 Oct 12 Columbus Day Santiago (Saros 133) 466th anniversary to the day after Columbus "discovers" America, a total eclipse travels the entire Pacific Ocean to end just after passing the city of Santiago, Chile. Eclipse occurred 5 weeks after Chile's Presidential elections, the first that featured Salvador Allende, who would be overthrown by a CIA backed coup on 9-11-1973.

1962 Feb 5 New Guinea PT 109 (Saros 130) 54 weeks after JFK takes office, Totality over Kolobangara Island (in Solomon Islands) where JFK's boat PT 109 sank 19 years before. Eclipse over New Guinea, where both Lyndon Johnson and John Kennedy had their wartime experiences. During the eclipse a rare grand conjunction of the planets occurred, for the first time since 1821. All 5 of the naked eye planets plus Sun and Moon were within 16° of one another on the ecliptic.

1965 May 30 New Zealand to Peru (Saros 127) New Zealand to Peru, with only Ocean in the path between. JFK birthday Metonic. First complete eclipse on earth since his assassination on 11-22-1963.



Hepton One Chapter Five-Saturdays 1963 to 1983

1963 Jul 20 Japan to USA. Beginning of 60's (Saros 145) Looked at In-depth at USA eclipses. Six years to the day before Moon Landing. 125 days (exactly 3,000 hours or 180,000 minutes) before the assassination of John F. Kennedy. A few weeks before King's March on Washington.

1966 Nov 12 South America. Middle of Sixties (Saros 142) Narrow line of true totality brings darkness to Lima, 97% coverage at Nazca Lines.

1970 Mar 7 End of the 60's Eclipse USA, Mexico, Canada (Saros 139) Saros 139 crosses same three nations again on 4-8-2024. Cape Canaveral (91% coverage) 7 months after first moon launch. 34 days before launch of ill-fated Apollo 13 on April 11 1970. Much more at USA Eclipses.

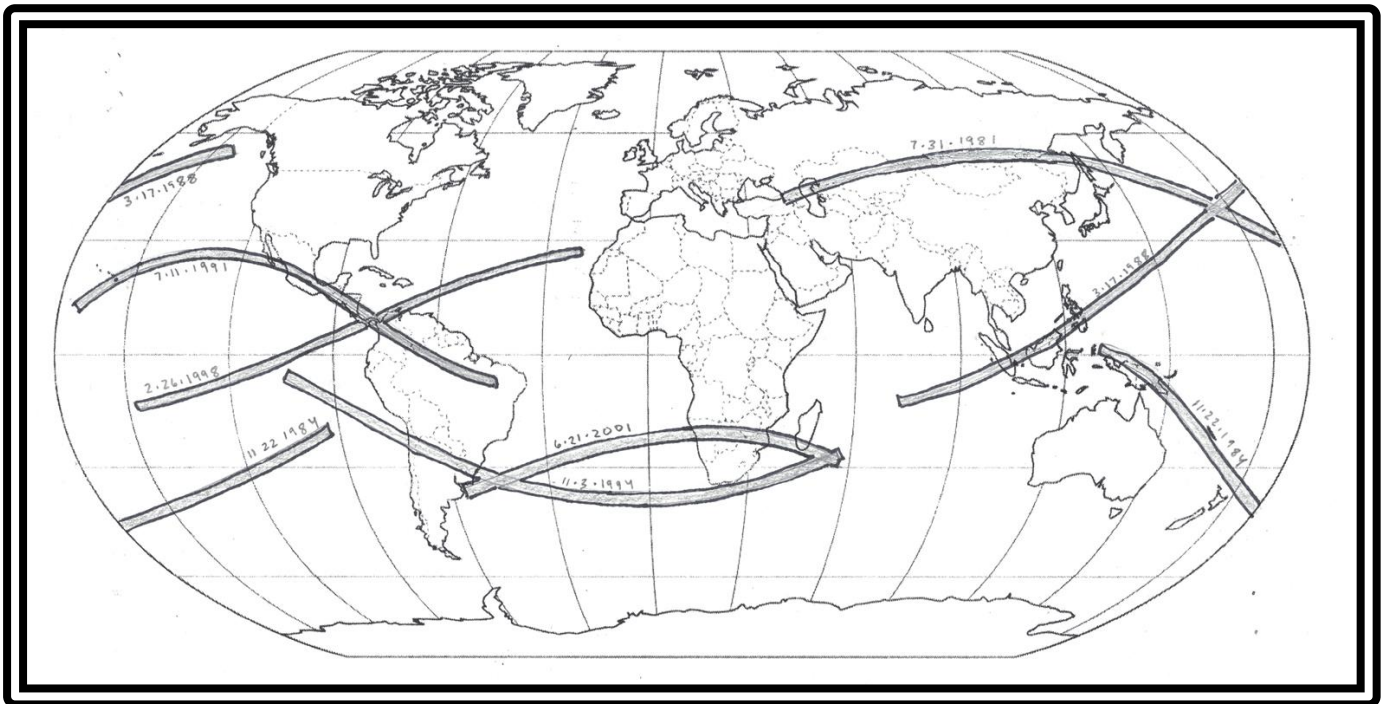
1973 Jun 30 Great African Eclipse (Saros 136) part of African Hepton Swarm. Longest African eclipse in more than a millennium-7 minutes 4 seconds. Eclipse enters at Mauritania, 92% at Timbuktu, path through Sudan, with totality in Darfur. Exits along border of Kenya and Somalia.

1976 Oct 23 Dar Es Salaam Africa to Australia (Saros 133) African Hepton Swarm. Path connects city of Dar Es Salaam, Tanzania ("place of peace") with Melbourne, Australia on October 23 1976.

1980 Feb 16 Dar Es Salaam Cross (Saros 130) One lunar year (355 days) after USA Mount Saint Helens/Microsoft eclipse, Totality crosses Africa from the slave coast exiting at Mombasa Kenya., bisects India (centerline of totality in Brahmapur) and Myanmar before ending in China.

1983 Jun 11 Indonesia/New Guinea (Saros 127) Major Indonesian cities in totality, including Yogyakarta, Semarang, Surabaya, and Makassar. Port Moresby, capital of Papua New Guinea.

Heptons coming together in more balanced crossing patterns. The African Hepton Cross (1973 to 1980) is one of only two True overland Hepton Total Crosses of 20th Century. Apex near Dar Es Salaam.



Hepton One/Chapter Six -Fridays 1983 to 2001

Isthmus Hepton Cross of 1991 and 1998 has an apex in ocean. The other Hepton Cross is over Pacific.

1981 Jul 31 USSR (Saros 145) The last decade of the Soviet Union's existence begins with a cross-country total solar eclipse that touched no other nations. More at world eclipses.

1984 Nov 22 New Guinea (Saros 142) 21 years to the day after JFK assassination. Path over PT-109.

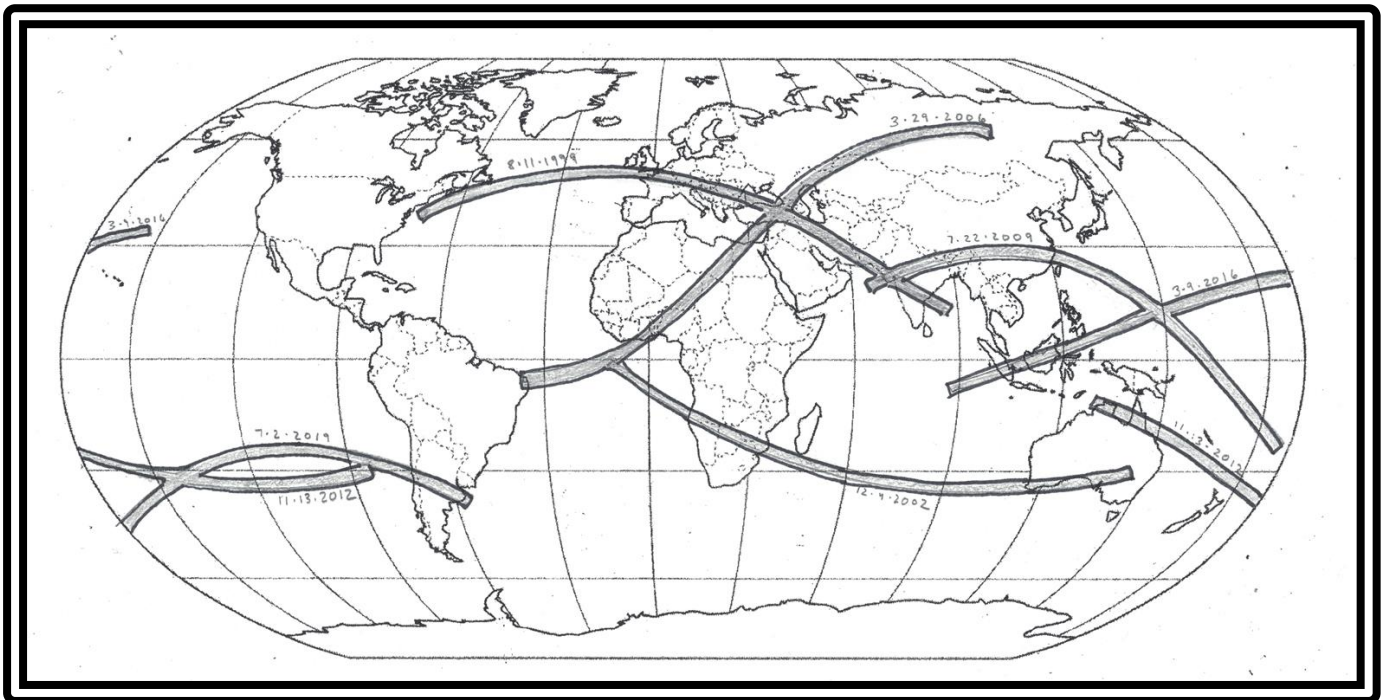
1988 Mar 17 Indonesia/Philippines (Saros 139) Mount Pinatubo (70%) of the Philippines erupts 3 years, 3 months and 3 days later in the 2nd largest volcanic eruption of the 20th century. Path from Palambang extends across the Pacific with partial eclipse in the USA in Alaska.

1991 Jul 11 Hawaii/ Central America (Saros 136) Totality for Big Island of Hawaii (Kilauea volcano), First total eclipse there since 1850. Mexico (including totality in Mexico City and Temple of the Sun and Moon). Eclipse path touches every nation of Central America through Colombia before ending in Brazil. 27 days after eruption of Mount Pinatubo (6-15-1991) in the Philippines.

1994 Nov 3 Nazca Lines South America (Saros 133) After dancing around Nazca for decades, the moon finally eclipses the sun perfectly over the mysterious Nazca lines in Peru. Totality in Asuncion, Paraguay. Path crosses South America and Atlantic and dodges Southern Africa.

1998 Feb 26 Isthmus Tav (Saros 130) A tiny patch of ground has totality on the 19th anniversary of the USA Mount Saint Helen's Eclipse. Path crosses the isthmus of Panama just south of the canal zone.

2001 Jun 21 Solstice South America to Africa (Saros 127) 82 days before 9-11-2001. First complete eclipse of the 21st Century. Summer Solstice. The first complete eclipse since 20th century's last eclipse of Aug 11 1999. The first complete eclipse of the 21st Century also has Double 21's located in the number, 6- 21-2001, In addition, the sum of all individual numbers equal 12, for numerica fans.



Hepton One Chapter Seven Turkish Cross-Wednesdays 1999 to 2019

This Hepton Features the great Turkish Cross, apex near Tokat. Cross reappears over the USA next.

1999 Aug 11 European Judgment (Saros 145) Described in detail at World Eclipses. Just offshore of USA to Britain, France, Germany (totality in Hitler hometowns), Austria, Hungary, Romania. Turkey six days before massive earthquake...then Iraq (Nineveh), Iran, Pakistan and India. One of the greats.

2002 Dec 4 Africa to Australia (Saros 142) First complete eclipse after 9-11 attack. Stops near Queensland/ New South Wales border.

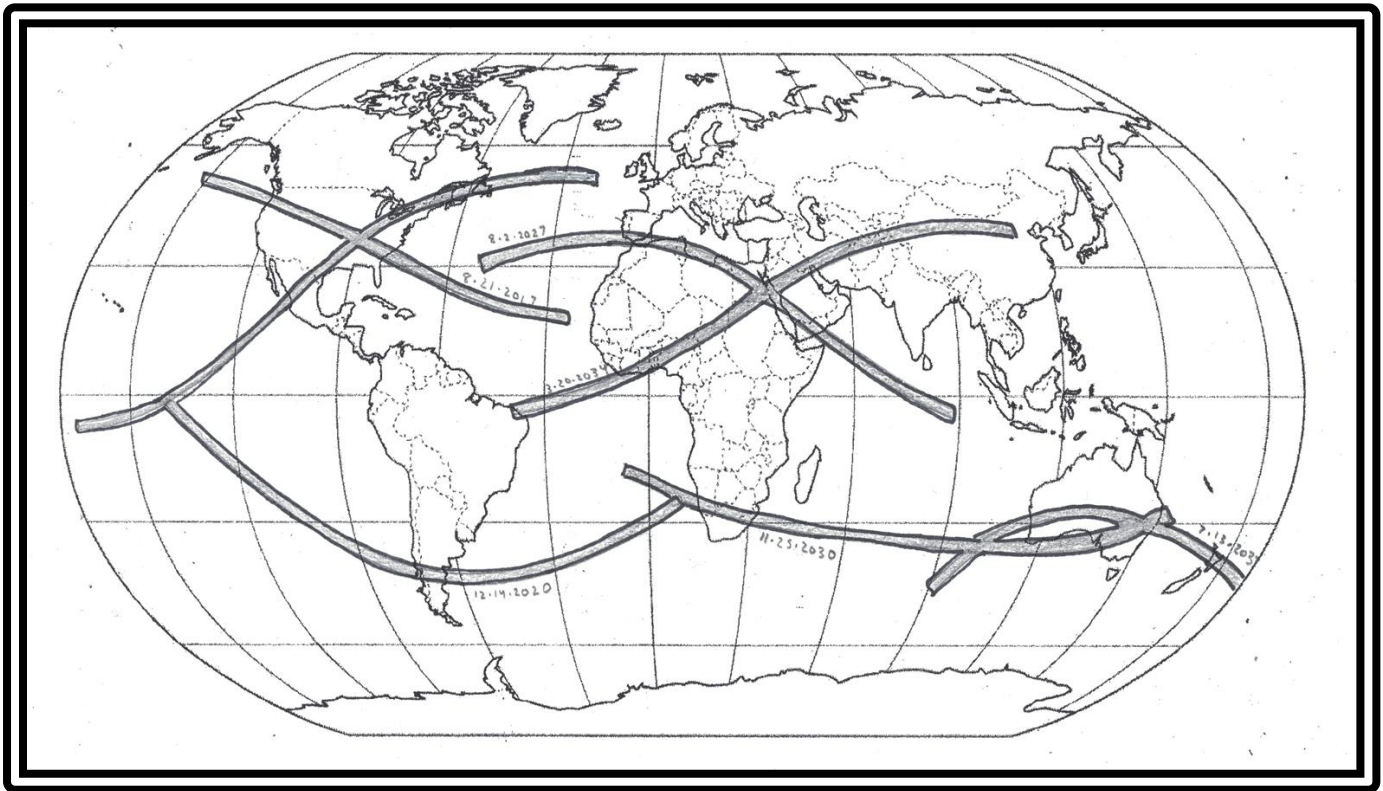
2006 Mar 29 Turkish Tav Africa to Russia (Saros 139) Described in detail at world eclipses. Completes the Turkish Hepton Tav, the first truly balanced Hepton Cross overland in the entire series.

2009 Jul 22 Wuhan Totality (Saros 136) 6 minutes and 39 seconds, this eclipse has longest duration of the 21st Century. Ten years before Pandemic declared. India, Bhutan, then China. Crosses Wuhan, China, her first complete eclipse in centuries, with the city almost perfectly in the centerline of totality.

2012 Nov 13 Darwin Eclipse (Saros 133) Begins at sunrise outside of Darwin, Australia (88% coverage), the city named for the famed evolutionist, on the 200th year anniversary of his birth(Feb 12 2012) . *Origin of Species* was published on Nov 24 1859, exactly 152 solar years plus one lunar year before. Only touches Australia.

2016 Mar 9 Indonesia/ Malay Archipelago (Saros 130) Indonesia, Malaysia, south Philippines. The last year in office of Barrack Obama, who lived in Indonesia as a boy.

2019 Jul 2 Buenos Aires Sunset (Saros 127) Pope Francis Eclipse. 2302 days after his ordination as Pope, Totality at La Serena, Chile and San Juan, Argentina). Ends at sunset near Pope Francis birthplace of Buenos Aires, Argentina. Leaves nation at Dolores (sorrows), Argentina.



Hepton One Chapter Eight-Mondays 2017 to 2037

3 Hepton Crosses in one Chapter. Perhaps the maximum expression of all modern eclipses.

2107 Aug 21 USA Divided/ Great American Eclipse (Saros 145) More at USA Eclipses. No other nation touched. First USA total eclipse in 38 years. Entrance at Salem. Exit at Charleston. Maximum eclipse in Makanda (the "star of Egypt") Illinois.

2020 Dec 14 Electoral College Eclipse (Saros 142) Eclipse occurs at bottom of South America while the new President and Vice-president are being elected by the Electoral College in Washington, DC.

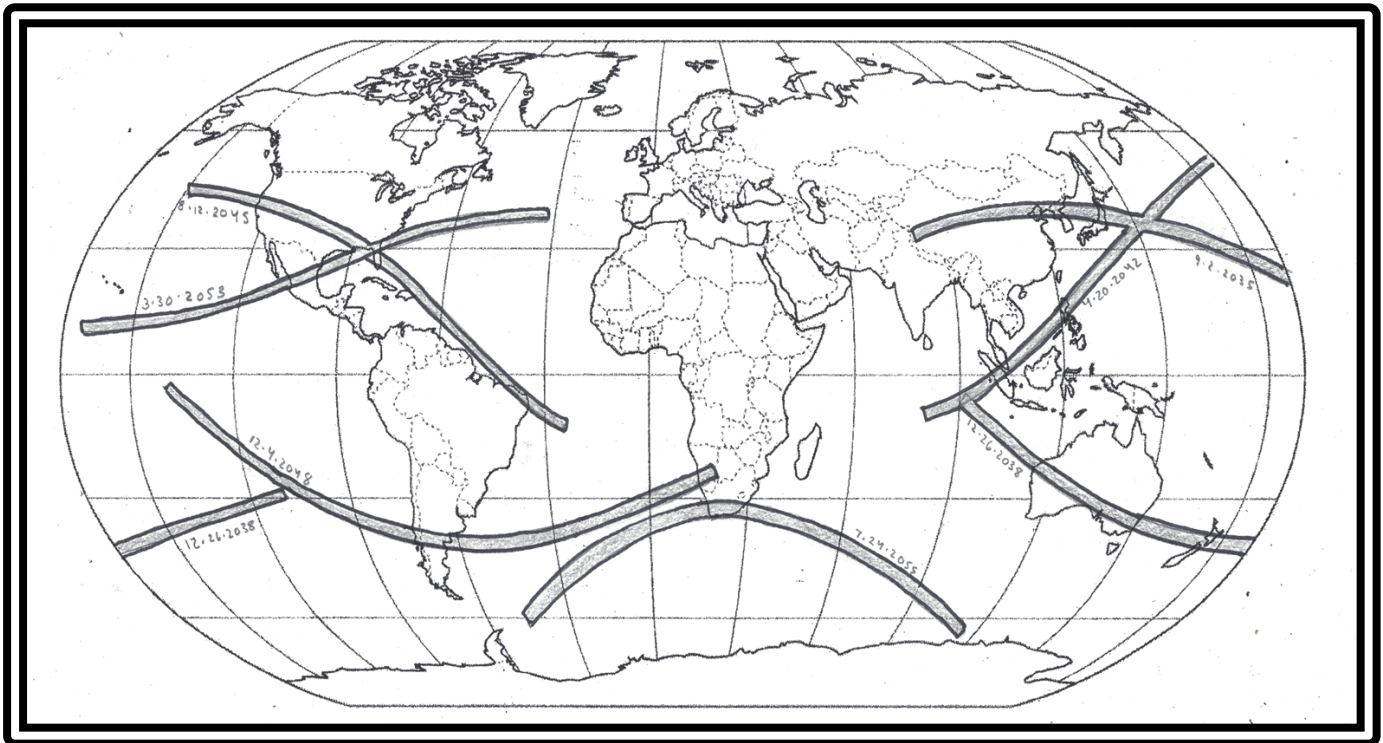
2024 Apr 8 North American Eclipse (Saros 139) South to North across Mexico, USA and Canada. More populated cities in path than any eclipse in the history of the Western Hemisphere.

2027 Aug 2 Valley of the Kings/ Mecca (Saros 136) 6 minutes and 23 seconds, there won't be a longer total eclipse until 22nd Century. Rock of Gibraltar, Tripoli, Libya, Valley of the Kings, the great Egyptian necropolis. Total eclipse in the Holy city of Mecca, Saudi Arabia.

2030 Nov 25 Ghost of British Empire (Saros 133) South Africa to Australia. Ending up at sunset over Botany Bay and Sydney. Occurs on what would have been JFK Jr's 70th Birthday.

2034 Mar 20 Spring Equinox Hepton Cross (Saros 130) More on this elsewhere. Creates 7 eclipse year cross with 2027 Valley of the Kings. New Year's Day in many other cultures.

2037 Jul 13 Australia and New Zealand (Saros 127) Forms the third and last Hepton Cross of this chapter in conjunction with 11-25-2030 eclipse, apex in remote southwest New South Wales.



Hepton One Chapter Nine-Saturdays (Nineveh Clause) 2035 to 2055

The First three eclipses of this series, including a Hepton Cross, combine to touch the nations of China, Korea, Japan, Philippines, Indonesia, Malaysia, Australia and New Zealand—most of them over or very near their capitals. Also notable are places that are not touched, Europe, most of Africa, Indochina, , the Central Asian Republics, Russia and India.

In the western hemisphere, three balanced eclipses perform a rough approximation of the eclipse positions that occurred 28 years before in Hepton Chapter Eight. But the apparent repetition isn't as simple as it appears. The Saros have switched places. The North American Cross is now created by the two Saros that previously created the Mideast Cross of 2027 to 2034. Check out Hepton Double Cross.

2035 Sep 1/2 China/ Korea/ Japan (Saros 145) Eclipse begins in China, just after western border with Tajikistan. It bisects the entire nation and brings the capital Beijing its first total eclipse since 1277 AD. Totality in Pyongyang, North Korea. North Tokyo is in totality. Downtown Tokyo sees 99.5 % coverage.

2038 Dec 26/25 Do they Know it's Christmas? Australia and New Zealand (Saros 142) It's December 26th for the Aussies and Kiwis, but for the watery world east of the international date line, it's a Christmas Day Total Eclipse. Australia and New Zealand bisected. Part of the Australian Swarm.

2042 Apr 20/19 Sumatra/ Philippines (Saros 139) Third eclipse in a row to emanate from around the 90th Parallel, only to cross the International Date Line (go back in "time" a day), and die in Pacific without reaching the Americas. The number 420 is present in 4-20-2042 numeric two times. The Metonic date of April 19 and 20 is a split between the death day of Charles Darwin (April 19 1882) and the birthday seven years later of Adolph Hitler (April 20 1889).

2045 Aug 12 USA California to Cape Canaveral to Columbus (Saros 136) Where do we begin? The Nineveh Clause offers up the possibility of later Judgment. Do we want it or not? 27 solar years plus one lunar year after US is first divided by an Aug 21 2017 USA Eclipse (numerica: 8-21 to 8-12 are the dates). 21 years after North American eclipse of 2024 painted the Hepton Tav across Little Egypt. The year the transhumanists proclaim synchronicity.

If all happens as astronomically scheduled, the 2045 Eclipse enters the US at the farthest westernmost point in California, Cape Mendocino, on the Lost Coast. Cape Mendocino was named by Spanish Explorers in the 16th Century and has been a landmark ever since. In Totality: Eureka, CA is the first city; then Redding and Chico. Reno, Nevada. Salt Lake City, Provo and Moab, Utah. Grand Junction, Aspen, Colorado Springs and southern Denver. Wichita, Kansas. Bisepts Oklahoma including OKC, Tulsa and Tahlequah. Fort Smith and Little Rock, Arkansas (Little Rock is also in 2024 totality). Jackson, MS. Montgomery Al. 99% in Memphis. Totality in almost the entire state of Florida, including Miami and Cape Canaveral, which has its 7th complete eclipse in less than 500 years, and 3rd eclipse since 1908. In the 77th year (76 years and 27 days) since Moon Rocket of Apollo 11 left Cape Canaveral/Kennedy.

Totality in San Salvador Island, where Columbus first landed on October 12, 1492. Eclipse brings totality to Haiti and Dominican Republic. It follows the Northeast Coast of South America, including Guyana's capital Georgetown and New Amsterdam. Follows coast of Brazil over city of Belem' (Portuguese for Bethlehem) and exits a few miles south of Natal, or "Nativity"(99.5%)...ends very near 11 degrees south, 22 degrees west.

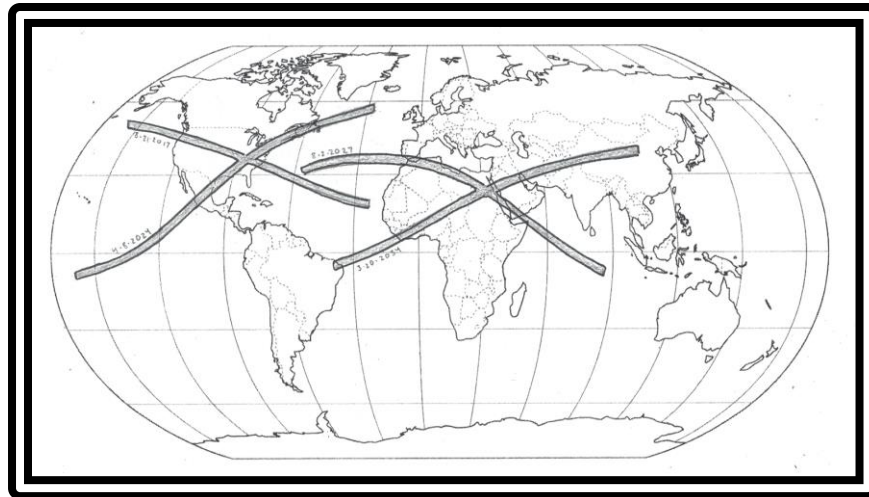
2048 Dec 4 South America to Africa (Saros 133) An interesting replica of Saros 142's famous Electoral College/ Washington Death Day Eclipse of 12-14-2020. This eclipse goes slightly south of the 2020 path in Chile and Argentina, and crosses the ocean to Namibia, Africa.

2052 Mar 30 Mexico US/ Florida Cross/ Final Charleston (Saros 130) Saros 130 makes a decent approximation of landfall of 139's 4-8-2024 USA Judgment eclipse, directly over Puerto Vallarta. From there, the path goes decidedly farther south than 2024. Mexico bisected. Brownsville TX and then across the gulf, just south of New Orleans (99.5%). Area between Pensacola and Tallahassee Florida is likely apex of Hepton Cross of 2045/2052. Path goes over Savannah, Georgia and leaves the USA at the infamous slave port of Charleston, South Carolina.

This is Charleston's 3rd Total Eclipse in 82 years (1970/2017/2052). Average for any place is once every 400 years. It's Charleston's fifth complete eclipse since 1834 (218 Years) and its 6th complete eclipse since 1628. That includes 4 totals in 218 years (1834, 1970, 2017, 2045) That is 800% of an average place on earth. Remember its not uncommon for a city to go more than a thousand years without a single total eclipse.

2055 Jul 24 South Africa (Saros 127) The oldest Saros in Hepton Chapter One on its last trip over heavily populated land before dying crosses South Africa, leaving at Port Elizabeth and New London.

Hepton Double Cross Peculiarity 2017 to 2060 in Two Maps Below

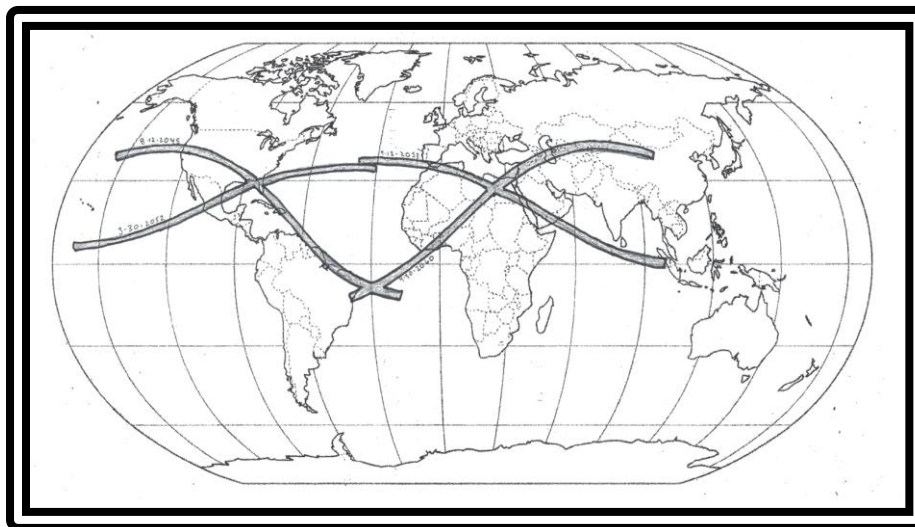


Above: The Hepton Crosses (Tavs) of 2017 to 2034

Western Cross: 8-21-2017 (Saros 145) and 4-8-2024 (Saros 139)

Eastern Cross: 8-2-2027 (Saros 136) and 3-20-2034 (Saros 130)

Then, a cosmic Switcharoo:



The amazing Hepton Bizarre Switcharoo Double Cross 2045 to 2060 above

No need to adjust your eyes. That's not the same map you just looked at. It's 28 years later and opposite Saros are making the Crosses.

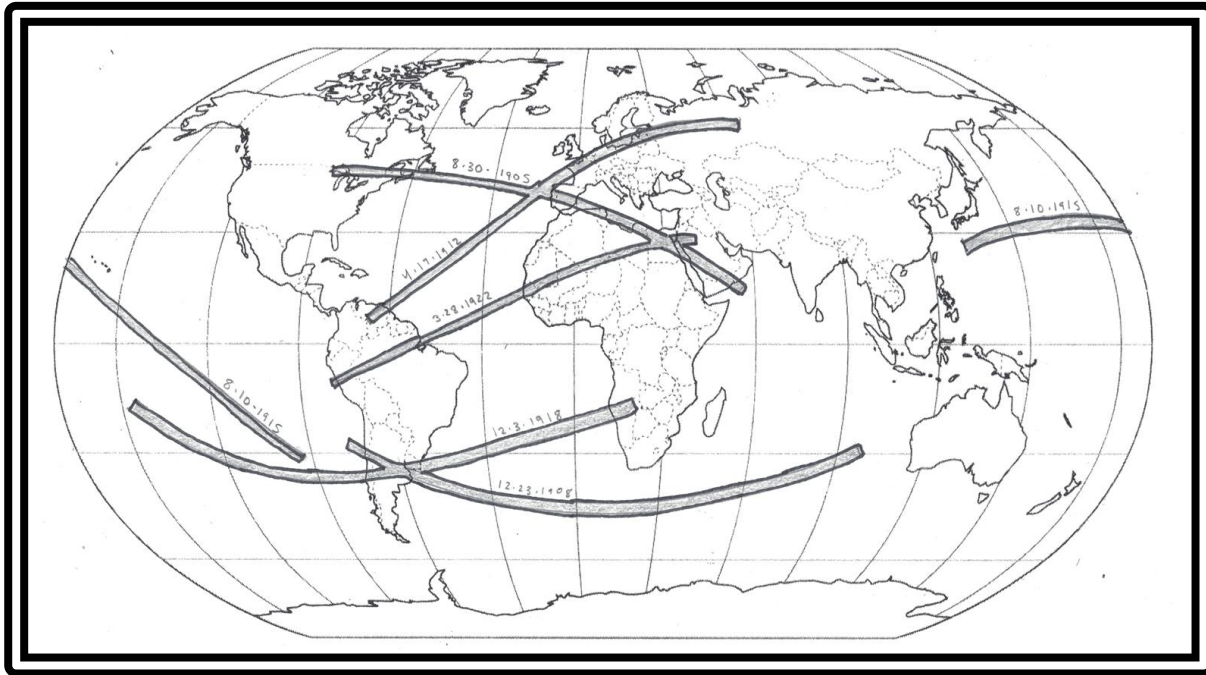
Western Cross: 2045 USA/ Cape Kennedy (Saros 136) 2052 Florida Cross/ Charleston (Saros 130)

Eastern Cross: 2053 Gibraltar/ Egypt (Saros 145) - 4-30-2060 Africa to China (Saros 139)

It takes a minute to believe what's going on. A double switcharoo eclipse cross? This is the signature of artistic mastery. Shadows as words, art, and songs of God.

Hepton Two: The Story of the "other hepton"

Hepton Two Chapter One- Wednesdays 1902 to 1922



1902 May 7 Partial (Saros 146) Saros 146 will be partial for two rounds of this Hepton while Saros 143 finishes its turn on August 22nd 1979

1905 Aug 30 Total Canada/ Spain/ Tripoli/ Egypt/ Mecca (Saros 143) Looked at closer in Mideast Section. First line of Hepton Cross with Titanic Hybrid.

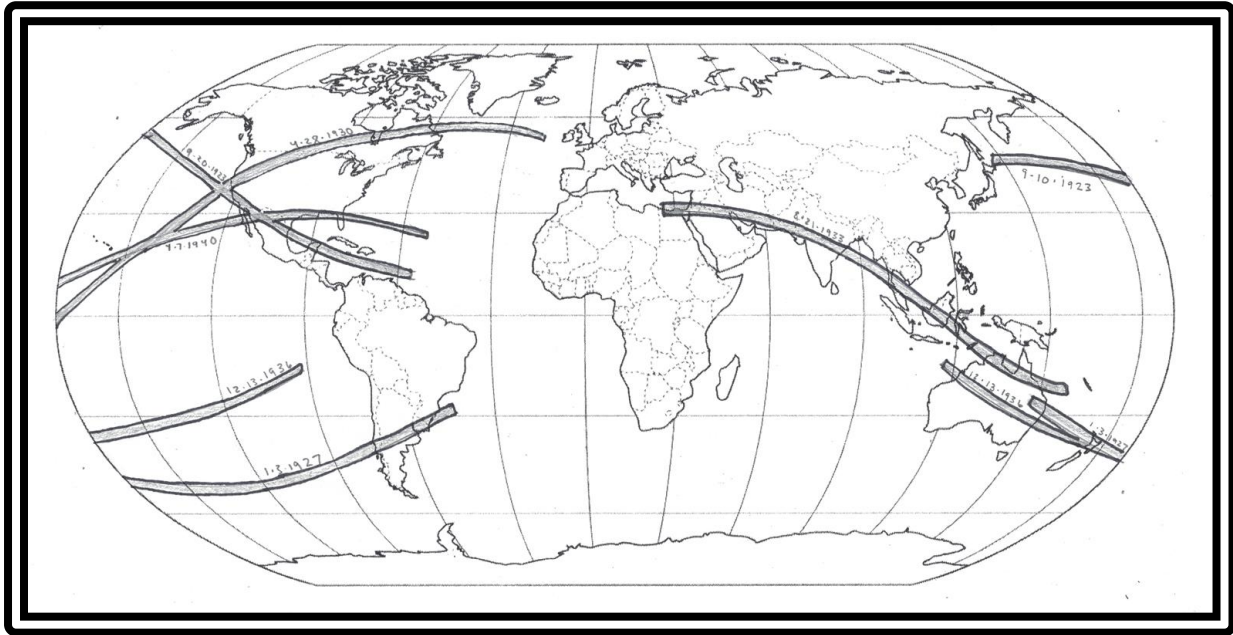
1908 Dec 23 Hybrid South America to Africa (Saros 140) Begins and ends as ring of fire, totality only visible from South Atlantic

1912 Apr 17 Hybrid Titanic Eclipse Atlantic/Europe(Saros 140) 60 hours after sinking of Titanic, a hybrid eclipse crosses the Atlantic. 60 hours after the sinking of the Titanic, a hybrid solar eclipse travels across the Atlantic. 90% totality at Ocean Liner's departure site of Southampton, England. Totality in Paris. A Saros in transition. Here it's a hybrid, soon to be a ring of fire. 99.7% totality in Oviedo, Spain—the apex of the pronounced 1905 and 1912 Hepton Cross.

1915 Aug 10 Ring of Fire Temple Destruction Metonic Pacific (Saros 137) 1845 years to the day after Rome destroys the Temple. One lunar year after Aug 21 1914 WWI eclipse. Eclipse avoids land.

1918 Dec 3 Ring of Fire Earthquake Chile Eclipse (Saros 134) A Ring of Fire enters Atacama desert region of Chile 24 hours before a magnitude 7.8 earthquake devastates towns in the Atacama region. Perhaps an example of an earthquake/eclipse tie, though the reality is hard to pinpoint.

1922 Mar 28 Ring of Fire King Tut Egypt Independence (Saros 131) Egypt one month after their formal independence from Britain and 7 months before Excavation begins on tomb of King Tut in the Valley of the Kings. Path of Annularity crosses all sites of Mount Sinai and Northern Arabian Peninsula. This one's got it all. It takes everything I can do not to get sidetracked by the King Tut Eclipse.



Hepton Two Chapter Two Mondays 1920 to 1940

1920 May 18 Partial (Saros 146) The exact day the future Pope John Paul II was born in Poland. Mt. Saint Helens erupts exactly sixty years later in 1980.

1923 Sep 10 Total Japan to LA (Saros 143) Begins in the northern islands of Japan at sunrise 9 days after the worst natural disaster to ever hit Japan, the great earthquake and fire of Sept 1, 1923, which killed nearly 150,000 people and largely destroyed Tokyo and Yokohama. Path goes to Southern California then Mexico. US and Japan, linked by the path, would be at war within 19 years.

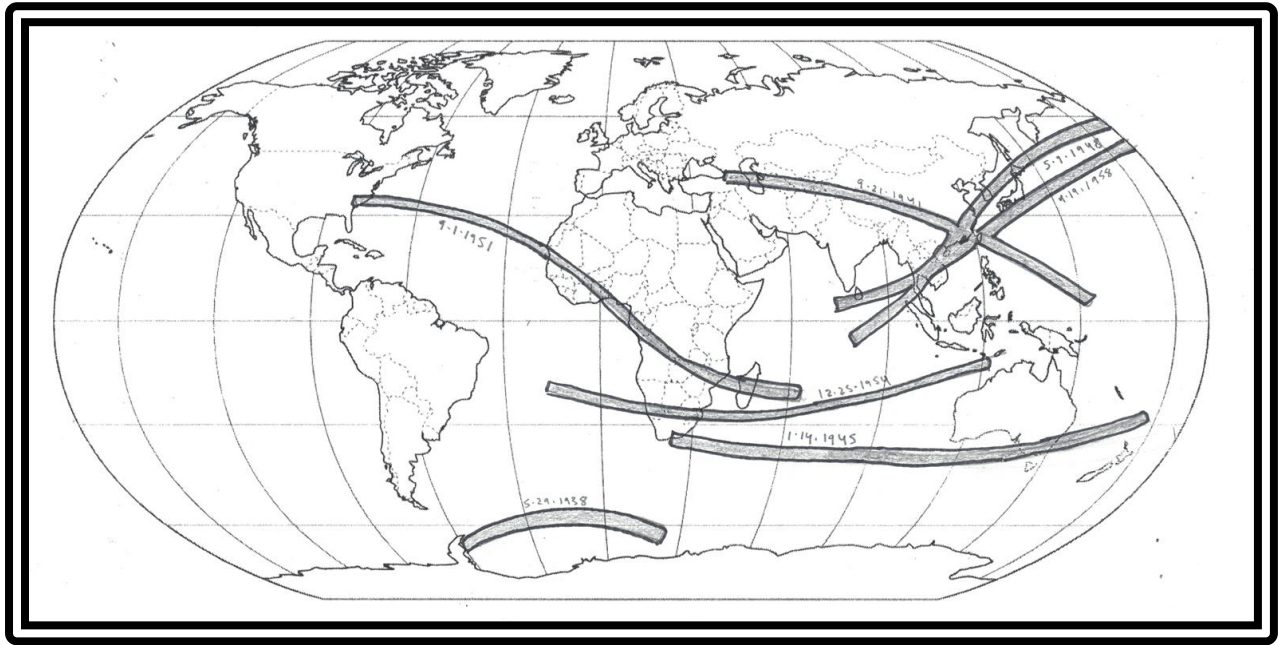
1927 Jan 3 Total Australia to South America (Saros 140) Eclipse begins at sunrise in Australia and crosses the Pacific ending just north of Buenos Aires, Argentina. Pope Francis parents arrive there from Italy 2 years later.

1930 Apr 28 Hybrid San Francisco (Saros 137) a thin line of totality (only ½ mile wide!) cuts across northern San Francisco before becoming a ring of fire through Idaho, Montana and Canada. The two great coastal cities of North America, New York and San Francisco, are thus marked by total solar eclipses within 5 years of each other. 36 years and two days prior to the Church of Satan being founded by Anton Lavey in San Francisco Apr 30 1966.

1933 Aug 21 Ring of Fire Jerusalem (Saros 134) discussed in detail in Middle East and World Eclipses. One of the three great August 21st twentieth century eclipses.

1936 Dec 13 Ring of Fire Australia/ New Zealand (Saros 131) The future Pope Francis will be born about 3 days later in Buenos Aires on Dec 17, 1936

1940 Apr 7 Ring of Fire USA/Mexico (Saros 128) See USA Eclipses. Total annularity in Austin and Houston) and hugs the Gulf Coast (Baton Rouge, New Orleans, Mobile and Jacksonville) on the first new moon after Easter.



Hepton Two Chapter Three Sunday/Saturday 1938 to 1958

1938 May 29 Total JFK 21st Birthday Endurance Eclipse (Saros 146) -We begin Hepton Two creating all complete eclipses, as Saros 143 transforms from partial to total. Eclipse over site of Shackleton's Antarctic Expedition 22 years before. The May 1916 500 miles in a rowboat and mountain traverse of South Georgia is one of the greatest adventure stories in the history of humanity Eclipse brings totality on South Georgia Island and 93% on Elephant Island. Back in Boston, it's JFK's 21st Birthday.

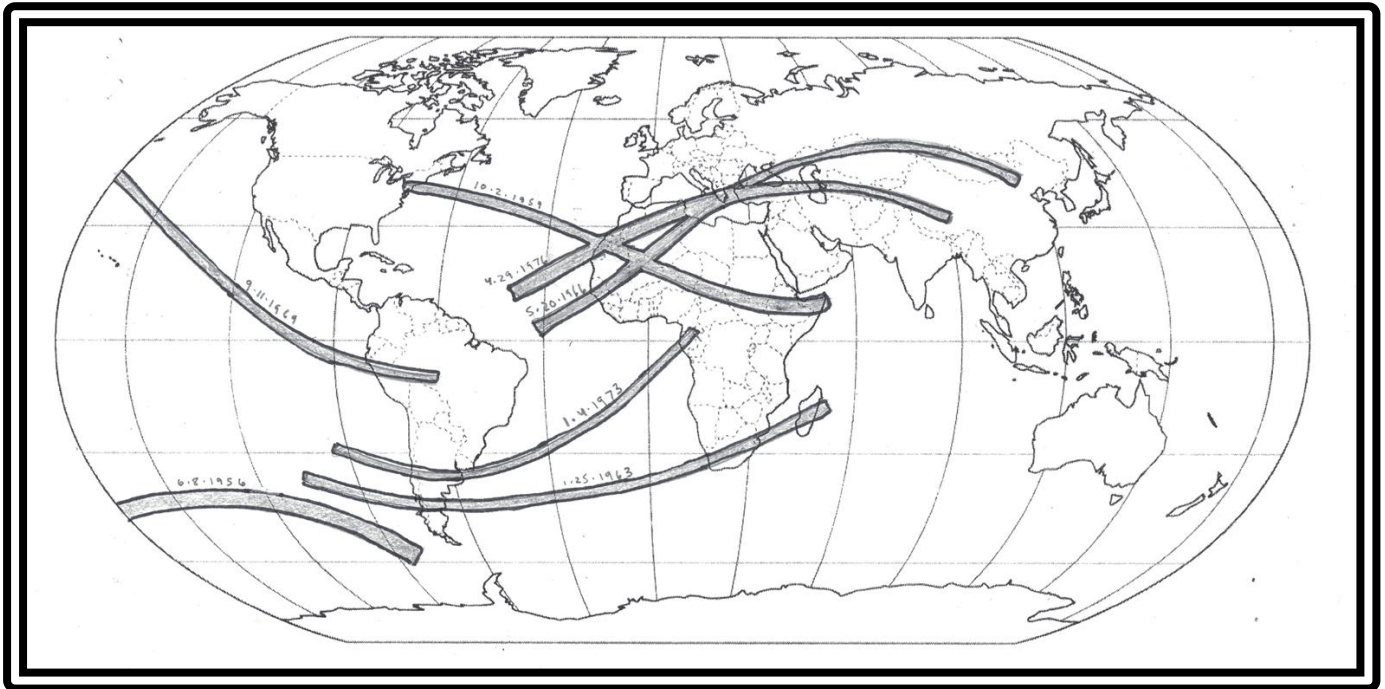
1941 Sep 21 Total USSR/China Equinox (Saros 143) Metonic cycle begins to settle in on Fall equinox. Eclipse 3 months after Germany turned on the Soviet Union and invaded them, 3 weeks after 23,000 Hungarian Jews are slaughtered by the Gestapo in Ukraine and 8 days before 30,000 more are killed at Babi Yar near Kiev. Total cuts across USSR (starting just east of Ukraine) Eclipse crosses China, during great battle of Changsha (95% totality). Totality in Wuhan and Taipei.

1945 Jan 14 Ring of Fire British Empire Southern Boundary (Saros 140) in the last terrible winter of WWII, a ring of fire skirts southern Africa and Tasmania. MLK turns 16 the next day.

1948 May 9 Ring of Fire (or was it Total?) Korea Divided (Saros 137)-One of those amazing eclipses which people have cause to wonder whether it was annular, hybrid or total. 99.99% totality in some places as it exits China. Brief 100% totality in Gang-won-do South Korea? Korea is divided between north and south two years before North Korea invades. Ensuing war will kill maybe ten million.

1951 Sep 1 Ring of Fire Jamestown to Angola, Africa (Saros 134) 332 years after first slaves brought to English colonial Jamestown on August 20, 1619. Path begins in Virginia with Total Annularity in Jamestown and colonial Williamsburg, crosses Atlantic to the Slave Coast, including Angola, which had been home to the 20 or so Africans brought on the first ship.

1954 Dec 25 Ring of Fire Christmas in South Africa (Saros 131) Christmas Ring of Fire in South Africa.. one of only two Christmas eclipses in centuries, and the last complete Christmas eclipse over continental land for centuries more. Annularity in Port Elizabeth.



Hepton Two Chapter Four- Casablanca Cross-Fridays 1956 to 1976

Hepton cross occurs between 1959 (Total) and 1966 Ring of Fire with apex near Kidal region of Mali.

1956 Jun 8 Total Antarctic Ocean (Saros 146) Began on Jun 9. Ended on Jun 8. Open Ocean.

1959 Oct 2 Total JFK Boston Sunrise to Africa (Saros 143) Much more at Personalities. Total Eclipse begins just west of Boston and gives that city a total solar eclipse for the first time since 1806, just as its modern son JFK is campaigning for President. Boston is the only major city in America to witness.

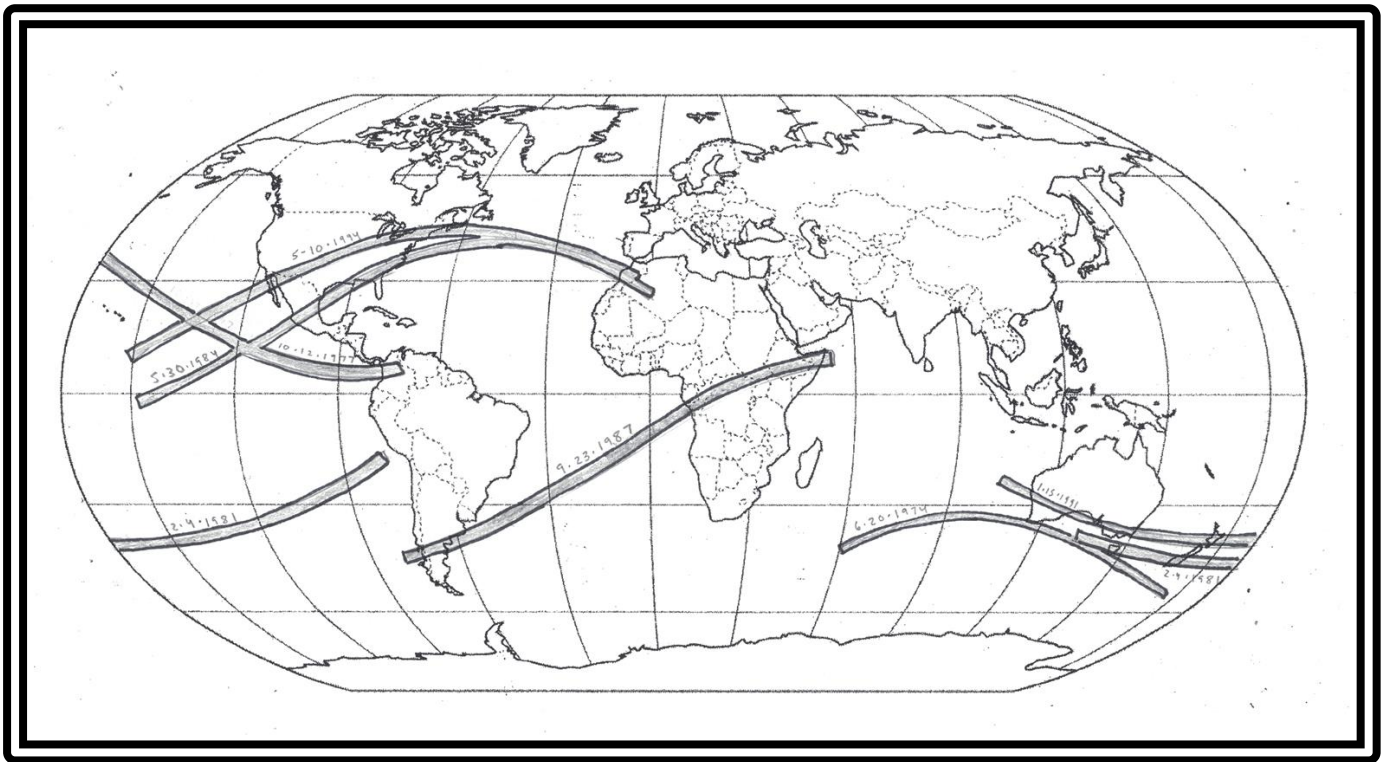
1963 Jan 25 Ring of Fire South America to South Africa (Saros 140) South America to Madagascar across South Africa, which is engulfed in national turmoil (95% at Cape Town). Nelson Mandela had begun his 27 years in prison six months before on Aug 5 1962.

1966 May 20 Ring of Fire Columbus Death Day Africa/ Athens/Asia (Saros 137) Columbus Death Day Metonic appears 460 years after his death (5-20-1506). Eclipse almost has totality, with maximum 99.94%. 56% coverage in Columbus home region of Genoa, Italy. 41% coverage in Valladolid, Spain where he died. Major cities in path: Tripoli, Athens (99%). Istanbul (98%), Stavropol and Astrakhan Russia (99.7%). Crosses almost all of China.

1969 Sep 11 Ring of Fire Peru (Saros 134) The September 11th Egyptian New Year metonic. South American nations of Peru and Bolivia. 92% coverage at Nazca Lines. Annularity at Trinidad, Bolivia.

1973 Jan 4 Ring of Fire Chile to Africa (Saros 131) Crosses Chile (66% at Santiago) 250 days before Sep 11 1973 coup deposed President Salvador Allende. 250 days has interesting properties. It is exactly 6,000 hours, or 360,000 minutes or 35 weeks 5 days (last number echoing 355 day lunar year)

1976 Apr 29 Ring of Fire Africa to China (Saros 128) Similar path to May 20 1966 in many ways— intersecting that prior path in islands of Greece. Tripoli in path again. Ends in Tibet.



Hepton Two Chapter Five; Wednesdays 1974 to 1994

1974 Jun 20 Total Eclipse Island (Saros 146) Only complete eclipse for all of 1974 and 1975 touches almost no land, only a tiny part of southwest Australia, appropriately named Eclipse Island.

1977 Oct 12 Total Columbus Day in Colombia (Saros 143) Almost no country affected except Colombia, the only nation on earth named after Columbus, on the 485th anniversary of the discovery of the New World. 53% coverage in San Salvador Island, site of Columbus's arrival. Totality in Bogota.

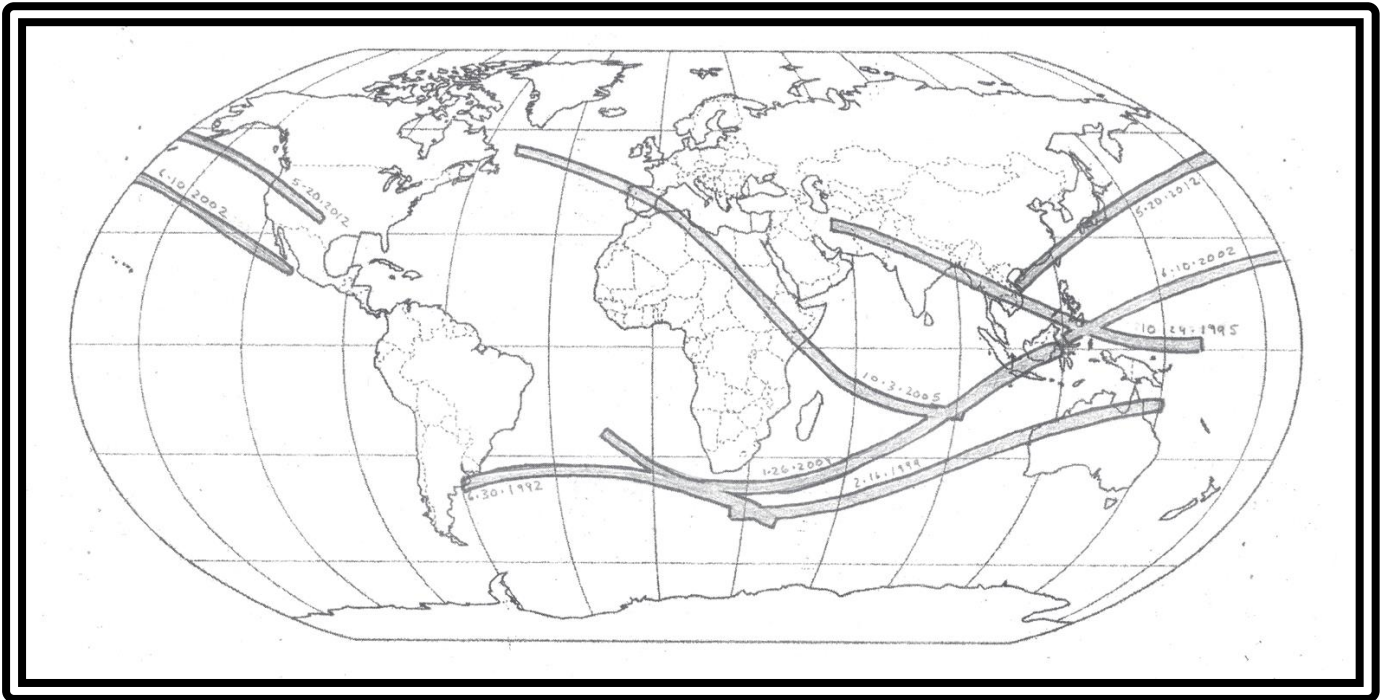
1981 Feb 4 Ring of Fire Tasmania (Saros 140) Over Hobart Tasmania, extreme southern New Zealand and Pacific almost to Peru. 105 years after death in Hobart of Trugannini, the last Tasmanian. This makes three Hepton Two eclipses in a row that have barely touched any land.

1984 May 30 Ring of Fire USA/ Mexico (Saros 137) More in USA eclipses. JFK 77th Birthday Metonic. Bisects Mexico and Crosses eastern USA before heading to Africa. A tiny path of hybrid-ish maximum goes directly over New Orleans and Atlanta. Annularity near DC.

1987 Sep 23 Ring of Fire Palindrome South America to Africa (Saros 134) Eclipse date of 9-23 is palindrome with the other eclipse of 1987 of 3-29. Eclipse neatly fits over both continents.

1991 Jan 15 Ring of Fire MLK Birthday Australia and New Zealand (Saros 131) Exactly 7 eclipse years after last JFK Metonic of May 30, 1984, the Martin Luther King Birthday Metonic truly re-appears for first time in centuries. What would have been his 62nd birthday. Perth Australia, Tasmania again and straddling New Zealand. 2 days before beginning of the Persian Gulf War air campaign (Desert Storm).

1994 May 10 Ring of Fire USA (Saros 128). Last complete eclipse in US for 18 years. More at USA.



Hepton Two Chapter Six Mondays 1992 to 2012

1992 Jun 30 Total Montevideo Single City Eclipse (Saros 146) There are 3 single city eclipses in less than 4 years--Mogadishu 9-11-1988, LA Metropolis 1-4-1992 and this one. Montevideo, Uruguay at sunrise...nowhere else but ocean. Montevideo means roughly "I see a mountain". 500th year since Columbus showed up in America. Buenos Aires, Argentina is a near miss at 93 % totality.

1995 Oct 24 Total UN Day Iran Sunrise/ India/ Southeast Asia (Saros 143) 50th anniversary of the United Nations. Path begins in Iran, goes through Pakistan, Afghanistan almost exactly 6 years before US ground invasion. India has totality at Allahabad (City of God) then eclipse in Southeast Asia.

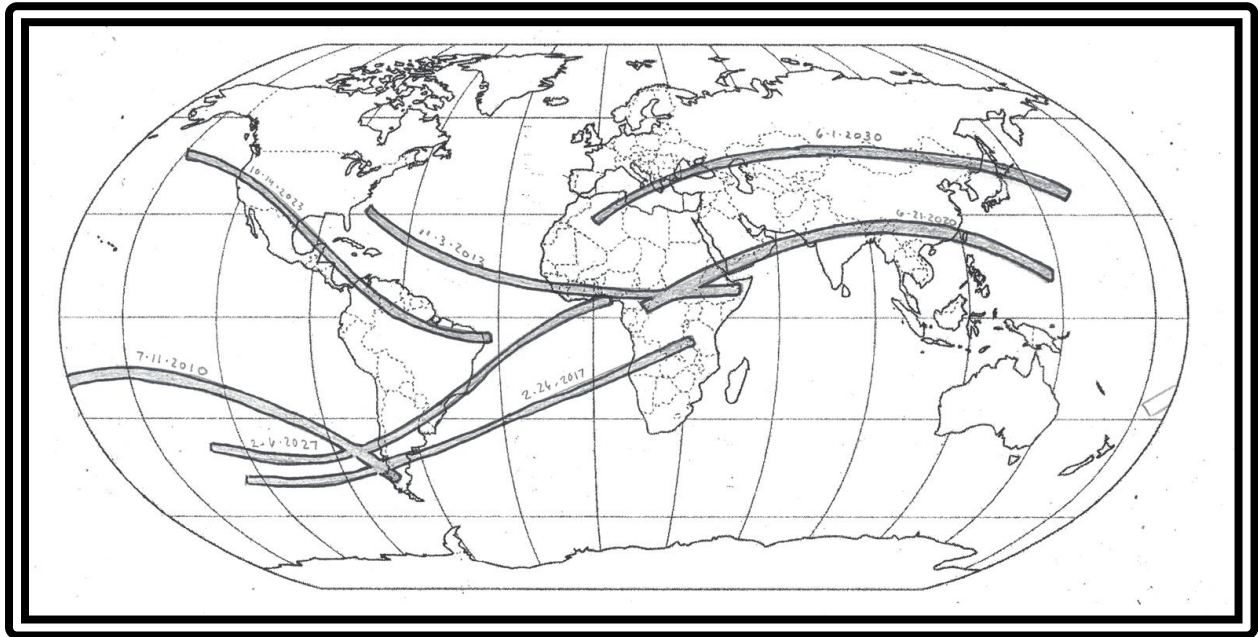
1999 Feb 16 Ring of Fire Australia (Saros 140) the second to last solar eclipse of the 20th Century.

2002 Jun 10 Ring of Fire Indonesia to Mexico (Saros 137) Indonesian Islands to Puerto Vallarta (at sunset...sweet!). Crosses entire Pacific Ocean, almost no land. 71 % coverage in Los Angeles. "Foolish" by Ashanti was #1 song in the USA. Almost exactly 9 months after 9-11 attacks.

2005 Oct 3 Ring of Fire Spain/North Africa (Saros 134) more at World eclipses. Annularity squarely on Madrid and Toledo Spain, also Algiers and Libya. Darfur in Sudan.

2009 Jan 26 Ring of Fire Indonesia Inauguration (Saros 131) Six days after inauguration of Barrack Obama. a ring of fire crosses almost entirely ocean to end over Indonesia, where Obama spent years of his childhood. Total annularity in capital of Jakarta, his boyhood home, at sunset.

2012 May 20 Ring of Fire Hanoi to Midland Sunset (Saros 128) See more at USA eclipses. Begins at Sunrise just east of Hanoi Vietnam and ends at sunset immediately over Midland, Texas, childhood home of George W. Bush.



Hepton Two Chapter Seven - Saturdays 2010 to 2030

2010 Jul 11 Total Easter Island (Saros 146) more at world eclipses. The first total eclipse in 1400 years to cross Easter Island--one of the most mysterious and isolated places on earth, the island of the great stone heads. Eclipse occurs precisely during the playing of the World Cup Soccer final between Netherlands and Spain, both of whom laid claim to that island. Spain wins the match 1-0.

2013 Nov 3 Hybrid Atlantic Through Africa (Saros 143) 143 goes Hybrid with a very thin path of totality crosses the Atlantic (19% coverage at Charleston South Carolina at Sunrise, enters Gabon just south of Libreville and crosses the continent. Last solar eclipse before lunar tetrad of 2014 and 2015.

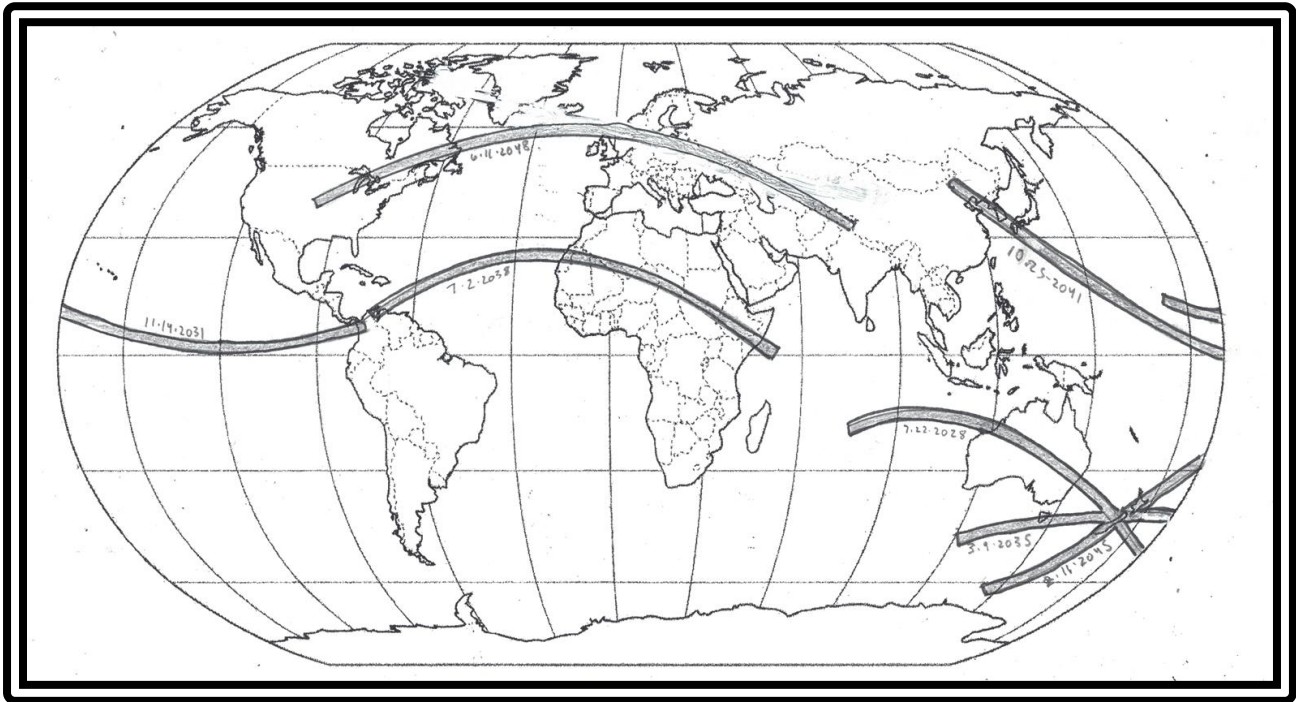
2017 Feb 26 Ring of Fire South America to Africa (Saros 140) Last solar eclipse before 8-21-2017 USA eclipse, this narrow ring of fire goes over the Patagonia region of South America, including only major town of Coyhaique and heads across the Atlantic into Angola before ending in Zambia. Occurs on the Feb 26 metonic date, 38 years to the day after USA Mount Saint Helens/Microsoft eclipse.

2020 Jun 21 Ring of Fire Solstice Father's Day Pandemic Africa to China (Saros 137) Africa and the Red Sea through Yemen, Oman, India, Pakistan, Nepal, Tibet and exiting through China and Taiwan. 83% in Wuhan , 70% in Mecca, 94% in Delhi, 35% in Jerusalem

2023 Oct 14 Ring of Fire USA to South America (Saros 134) much more at USA eclipses. On the Columbus Day Metonic exactly 531 years after first colonial crime, on Oct 14 1492. Exiting US at Corpus Christi ("Body of Christ"). Exiting Brazil at the city of Natal, translated "Nativity"

2027 Feb 6 Ring of Fire South America to Africa (Saros 131) see world eclipses. From Rio de Janeiro, the largest slave port in history of world to salve coast of Africa in 500th anniversary year of first importation of African slaves to the Americas.

2030 Ring Jun 1 of Fire Athens/ Constantinople/ Crimea/ Japan (Saros 128) See at world eclipses. Another great path from Algeria to Japan across the middle of Asia.



Hepton Two Chapter Eight—Fridays 2028 to 2048

2028 Jul 22 Total Australia Sydney/Botany Bay (Saros 146) 19th Anniversary of the Wuhan Totality of 2009. Australia bisected with totality in Sydney and Botany Bay, where the first prisoners were brought to colonize the continent 240 years earlier, in 1788. Crosses southern New Zealand. 177 days after Australia Day Ring of Fire of 1-26-2028. One lunar year from Mideast Eclipse of 8-2-2027.

2031 Nov 14 Hybrid Pan American Isthmus (Saros 143) Perhaps the last totality for the great Saros 143. It completes its cosmic tasks with an open ocean eclipse ending with totality at sunset over the most extraordinary landbridge on planet earth. 180th anniversary of publication of Herman Melville's "Moby Dick" in 1851. 9.94% coverage at Dallas Texas 67 years, 11 months and 22 days after JFK murder on 11-22-1963. Saros 143 created the JFK Boston eclipse of 10-2-1959. Its next eclipse is on 11-25-2049, which would have been JFK Jr.'s 89th birthday.

2035 Mar 9 Ring of Fire New Zealand (Saros 140) 136 eclipse years exactly after we began our Hepton Two journey on May 7, 1902. A ring of fire begins south of Australia, just dodges the island of Tasmania and crosses the straits between the magical islands of New Zealand, including annularity in Wellington, where the author of this website was conceived.

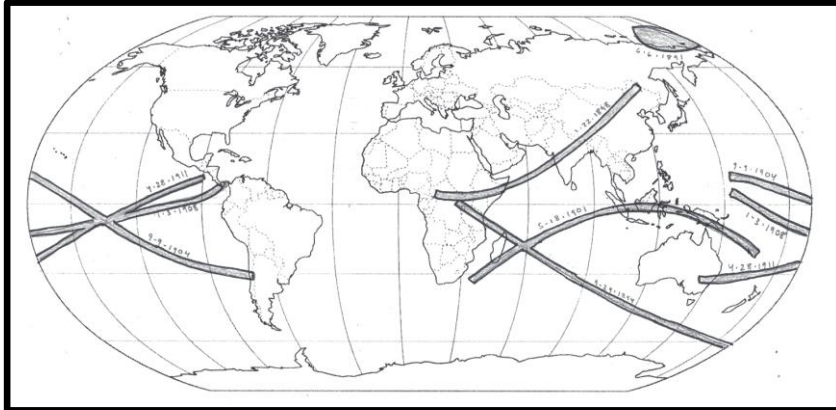
2038 Jul 2 Ring of Fire South America to Africa (Saros 137)

2041 Oct 25 Ring of Fire China, North Korea, Japan (Saros 134) Crosses path of 3-9-2035 Total with apex along China-North Korea border.

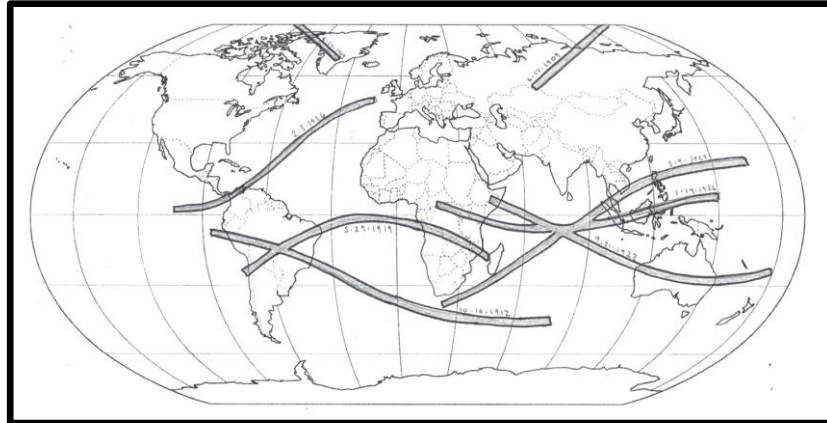
2045 Feb 16 New Zealand (Saros 131) last eclipse of Australia New Zealand Swarm.

2048 Jun 11 USA to Islamabad (Saros 128) Heartland of USA to Baltics, Russia, Afghanistan. Ends at sunset outside of Islamabad, Pakistan. Annularity over Lincoln Nebraska exactly 193 Eclipse years after Lincoln's murder 4-14-1865.

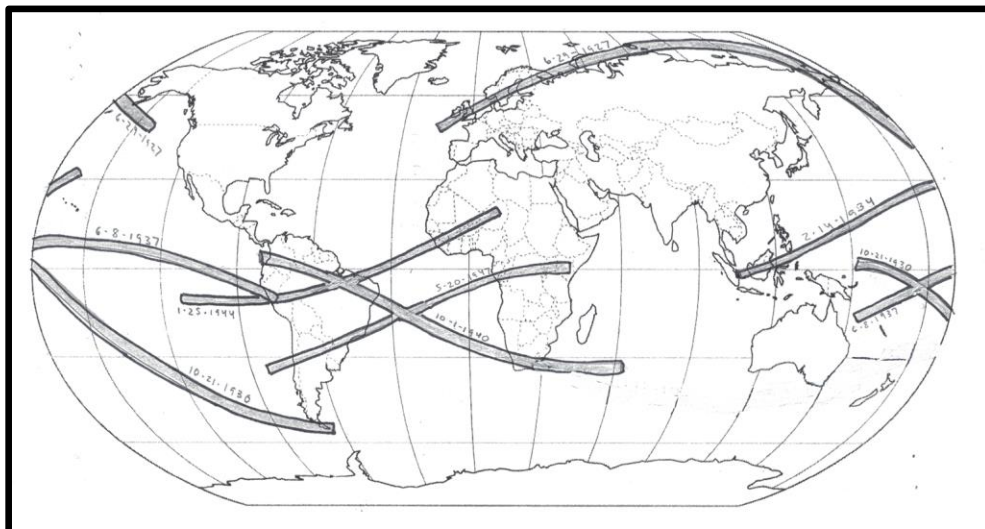
Heptons as Cosmic Art



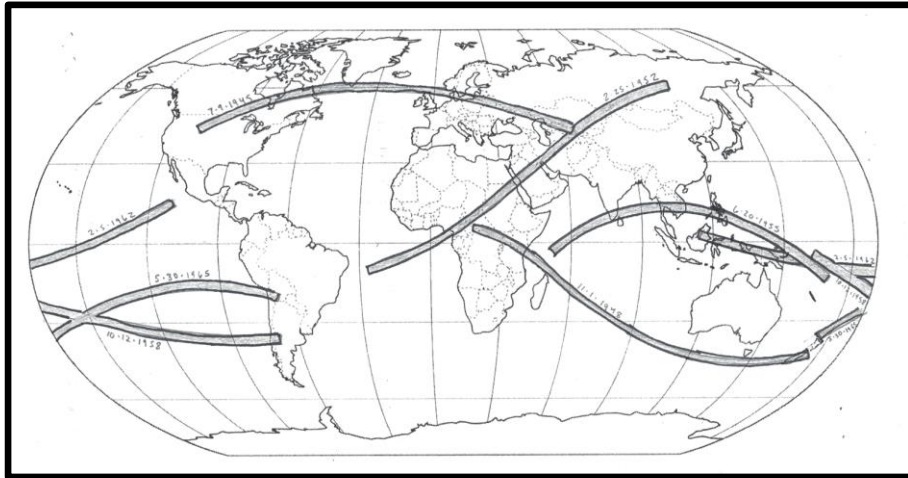
Above: Hepton 1 Chapter One 1891 to 1911



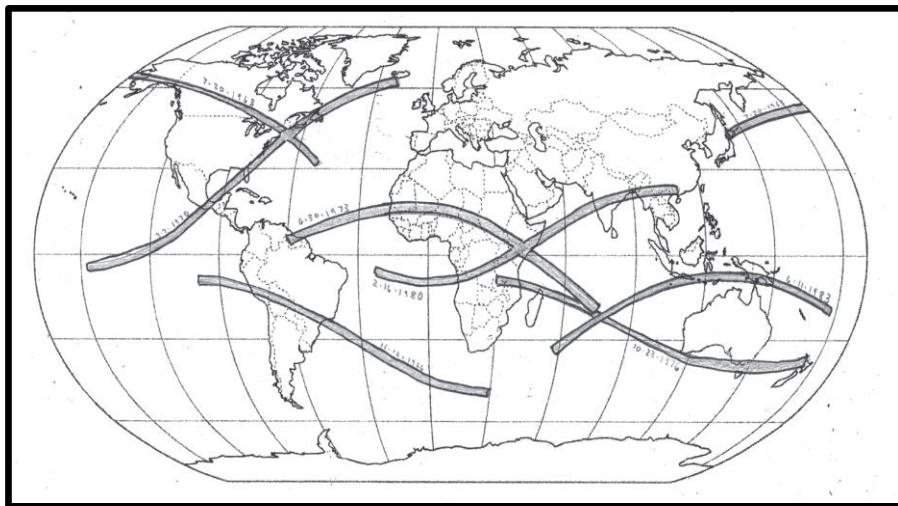
Above: Hepton One Chapter Two 1909 to 1929



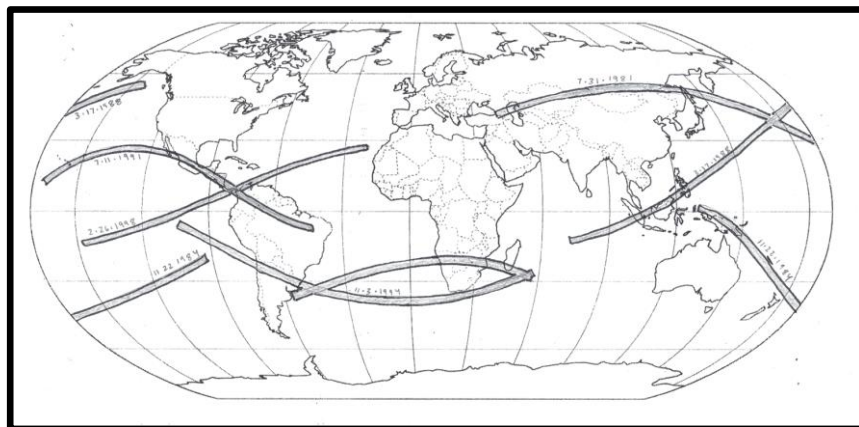
Above: Hepton One Chapter Three 1927 to 1947



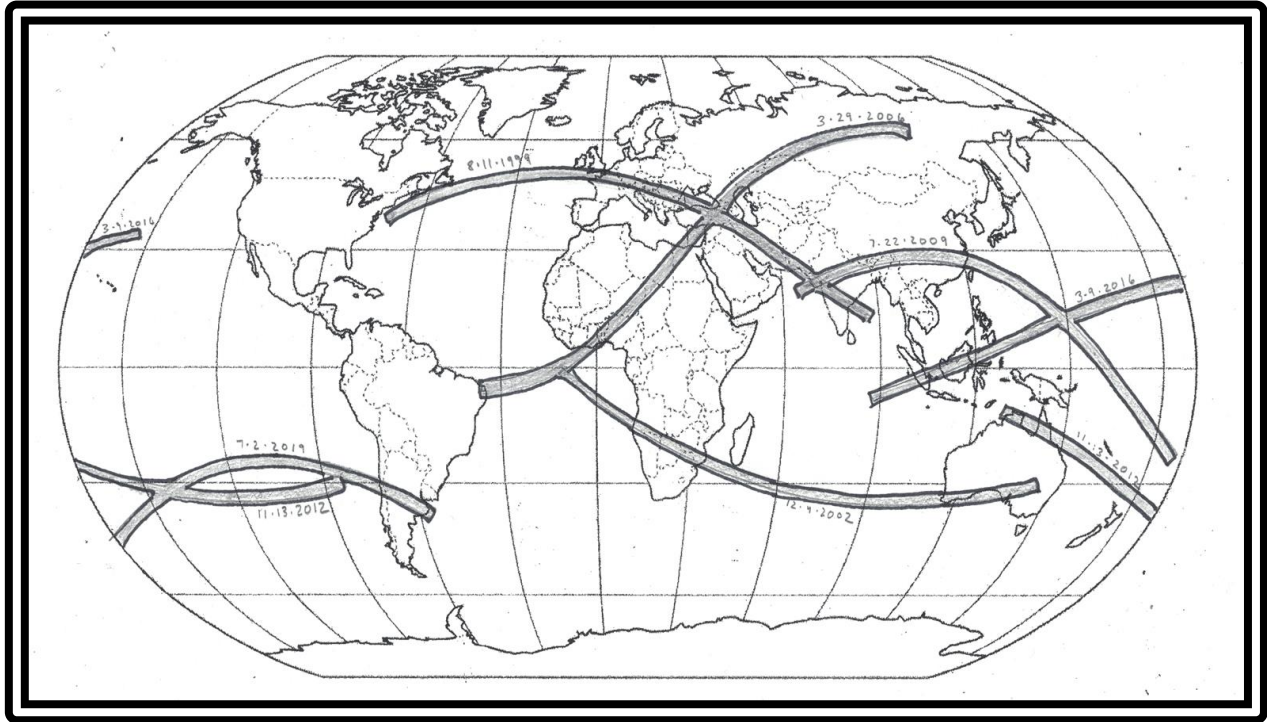
Above: Hepton One Chapter Four 1945 to 1965



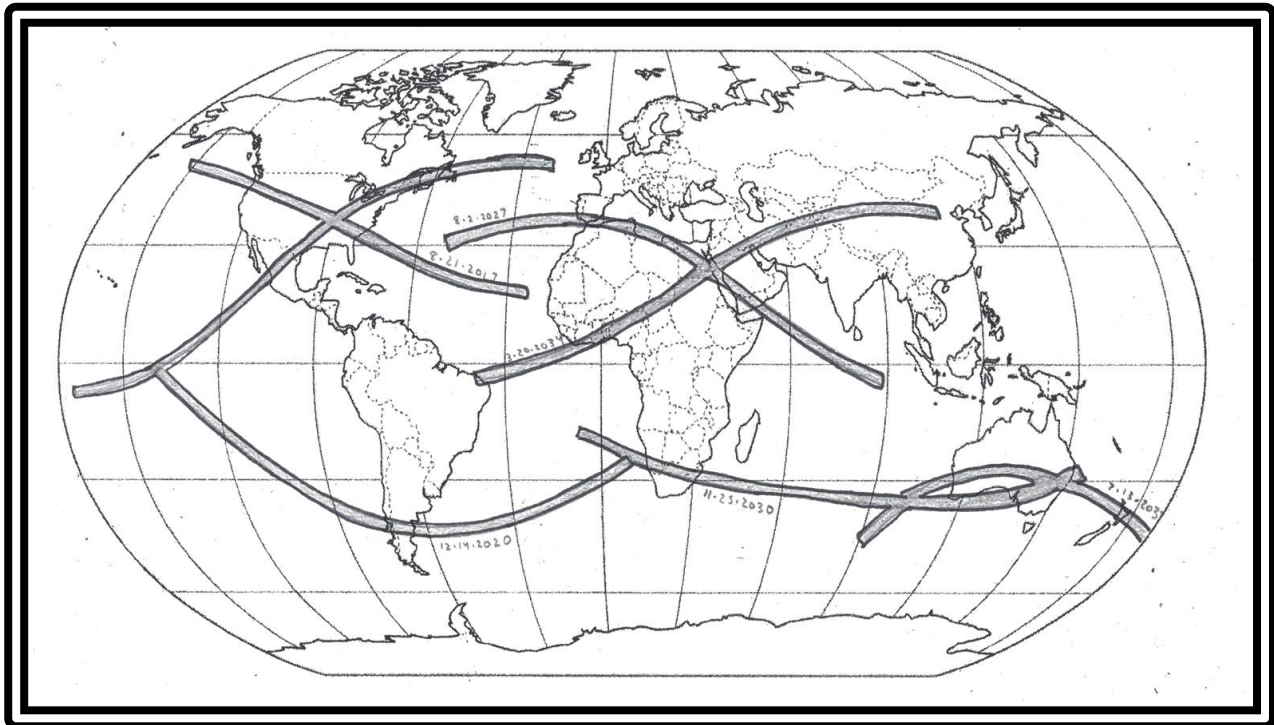
Above: Hepton One Chapter Five 1963 to 1983



Above: Hepton One Chapter Six 1983 to 2001

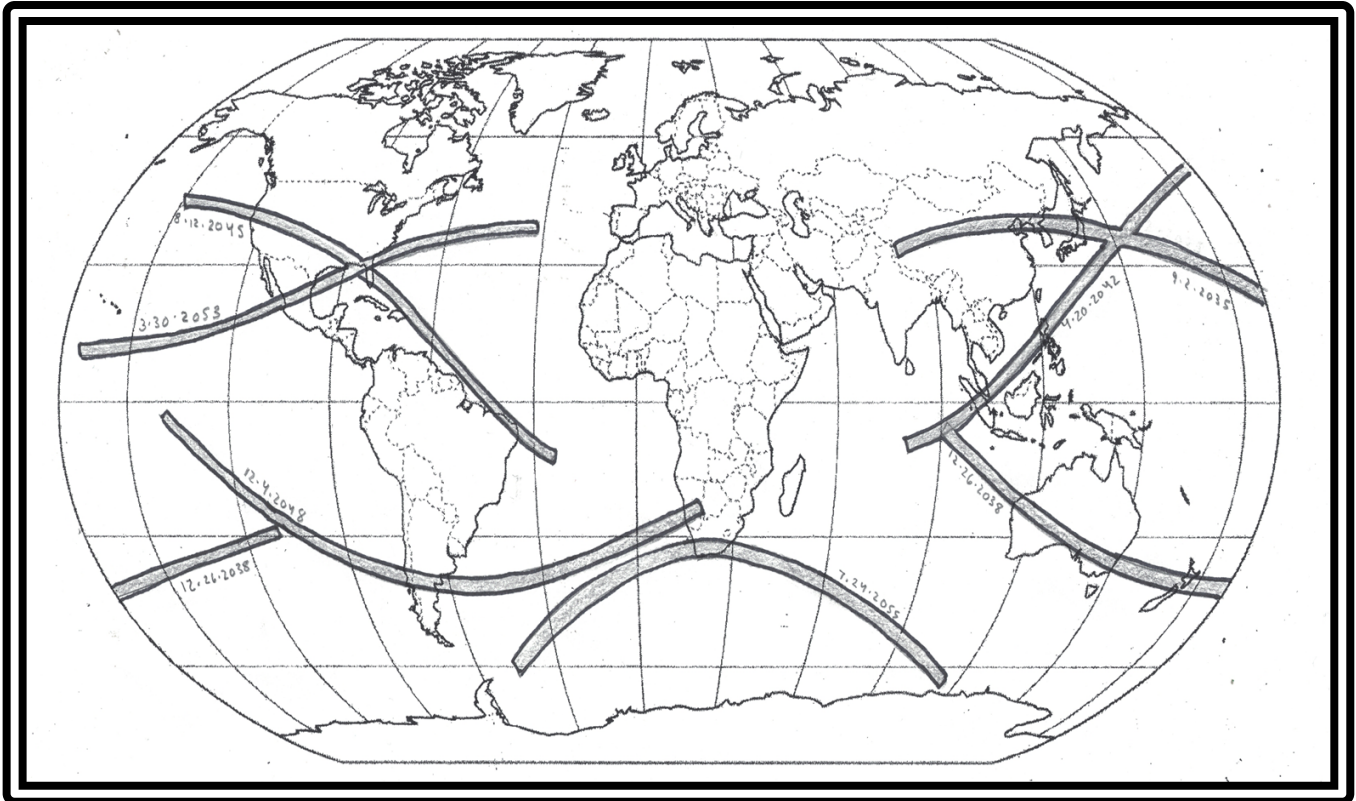


Above: Hepton One Chapter Seven Wednesdays 1999 to 2019 Turkish Cross



Above: The Great Chapter Eight- Mondays 2017 to 2037

Hepton One Nineveh Clause 2035 to 2055

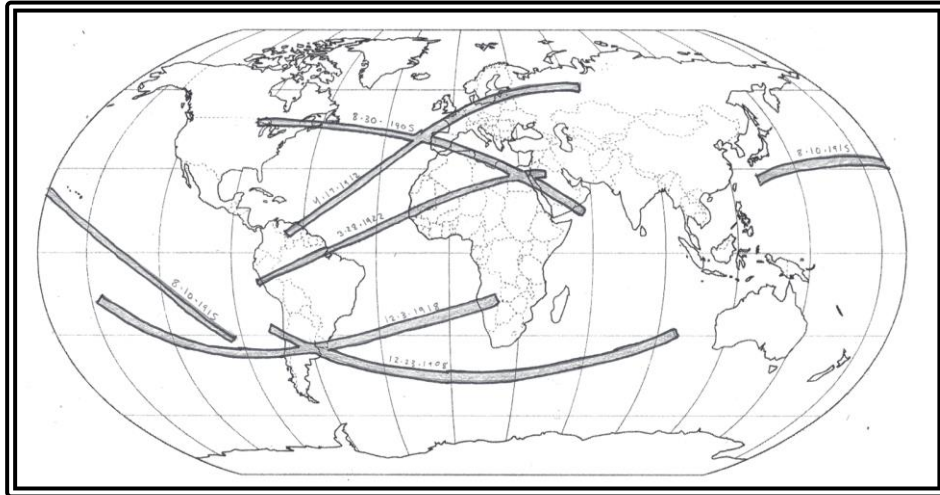


Wouldn't it be nice?

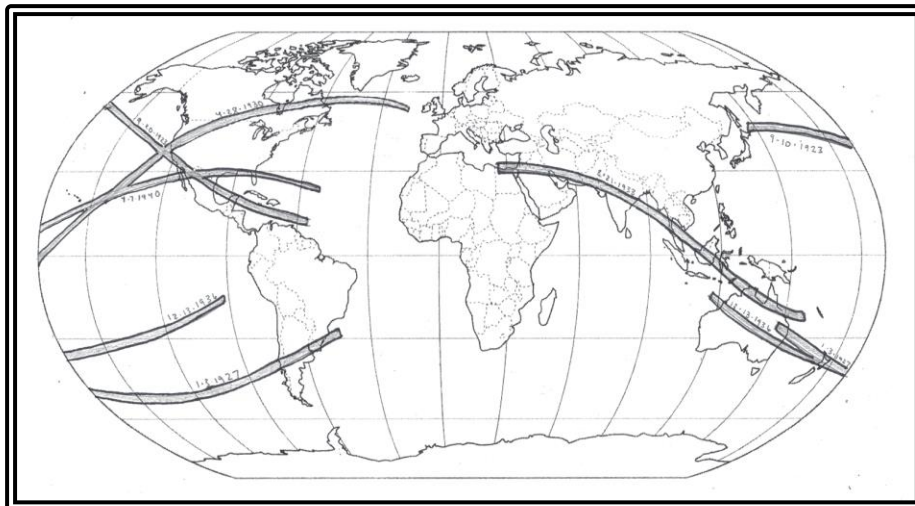
Hepton One Chapter Nine *Nineveh Clause* 2035 to 2055.

Obviously, the balanced Hepton crosses continue for a little while. Do we?
Further consideration at Nineveh Clause - The Sign of Jonah.

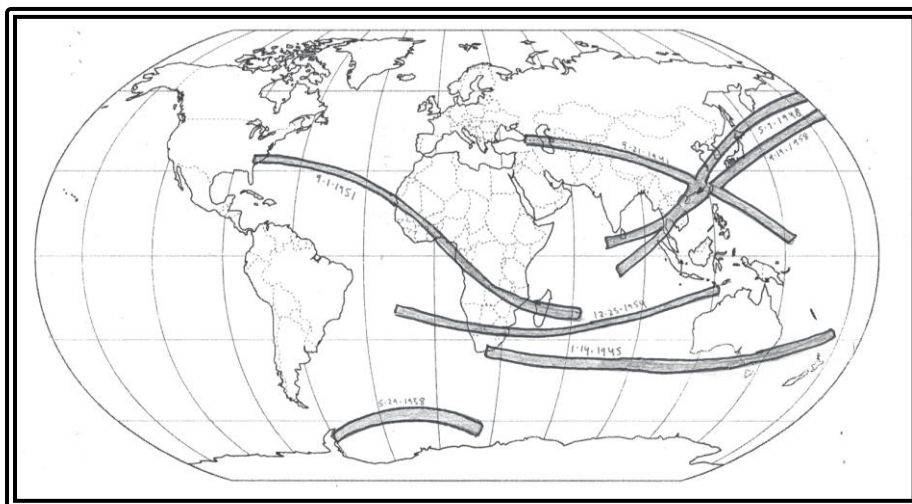
The Hepton Two Story in Pictures:



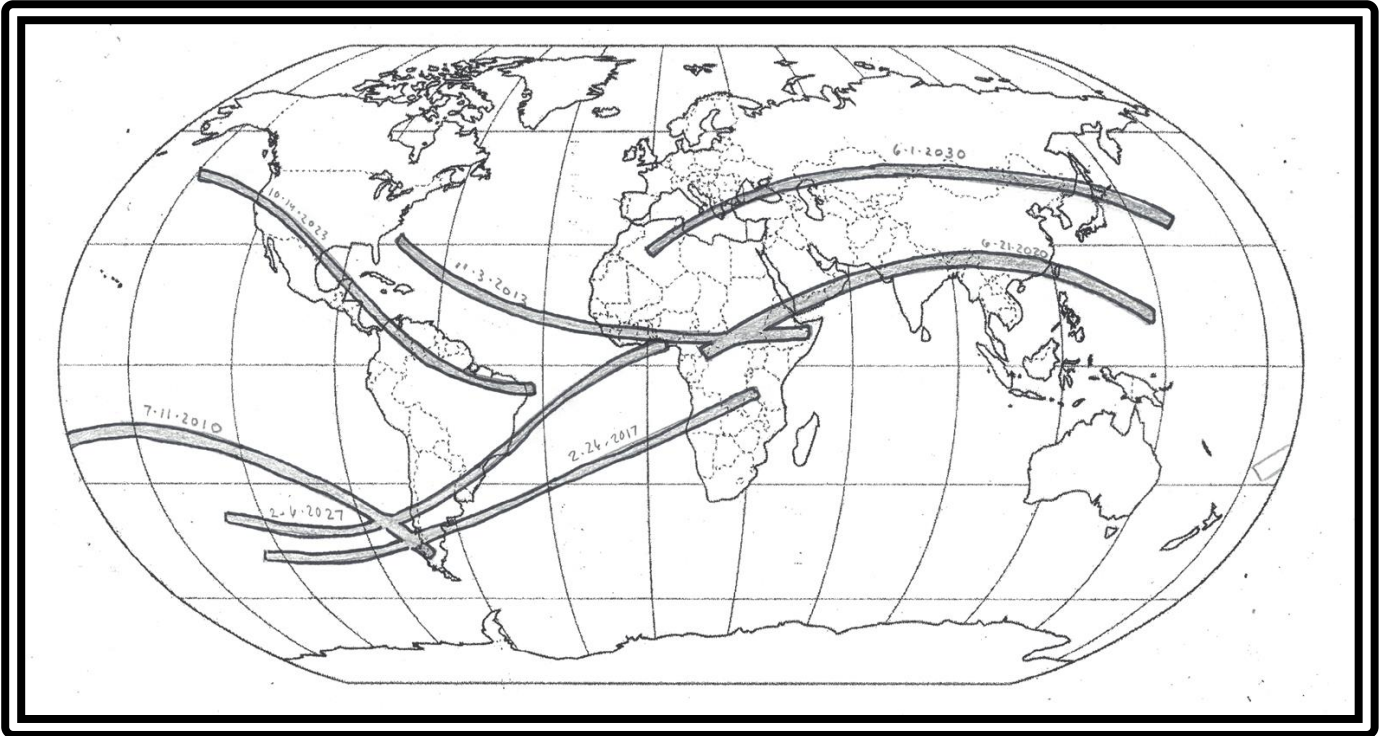
above: Hepton Two Chapter One 1902 to 1922 Wednesdays



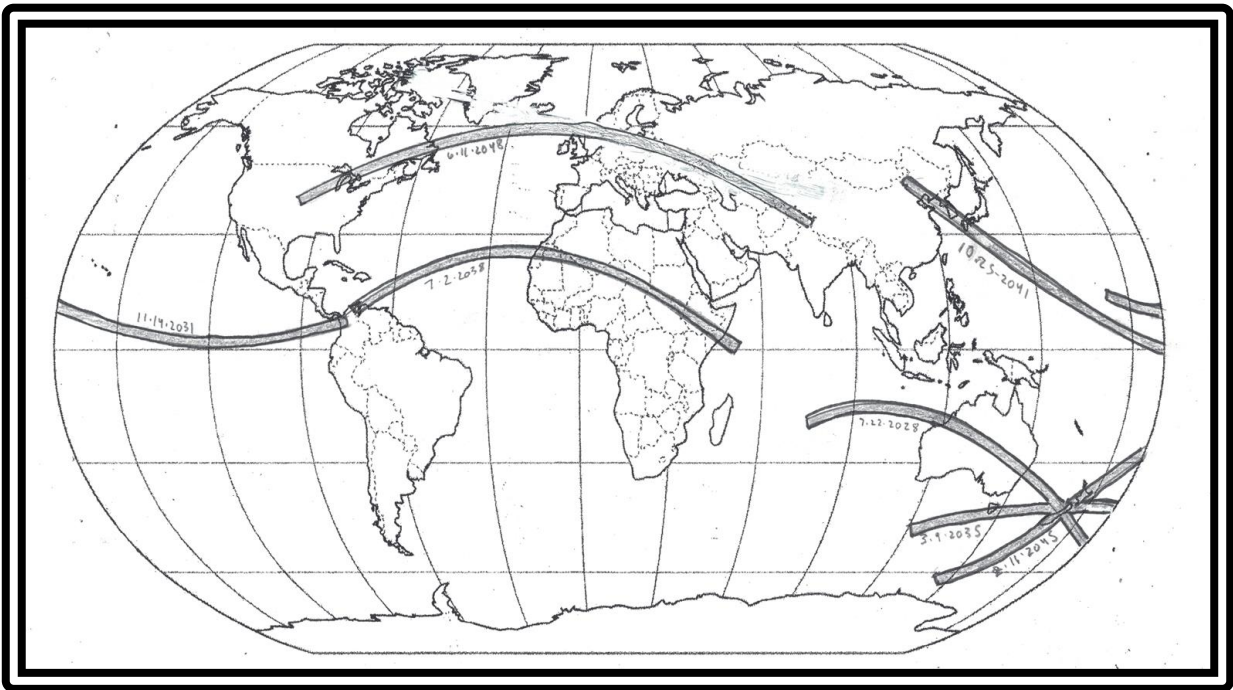
above: Hepton Two Chapter Two 1920 to 1940 Mondays



above: Hepton Two Chapter Three 1938 to 1958 Sunday/ Saturday

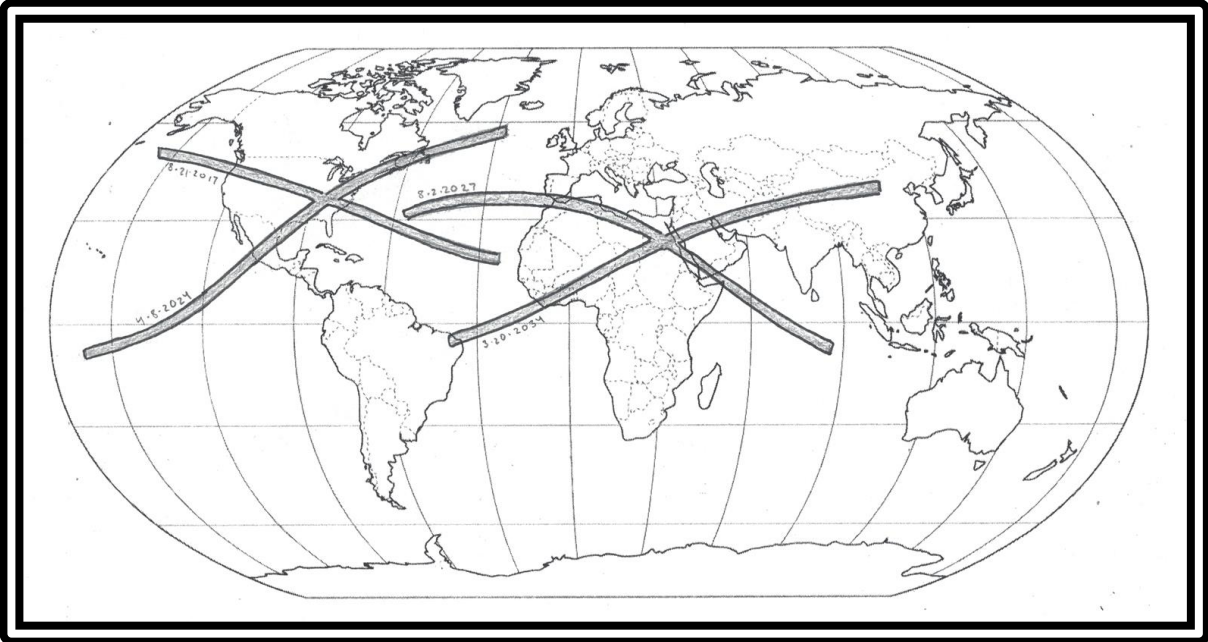


Above: Hepton Two Chapter Seven 2010 to 2030



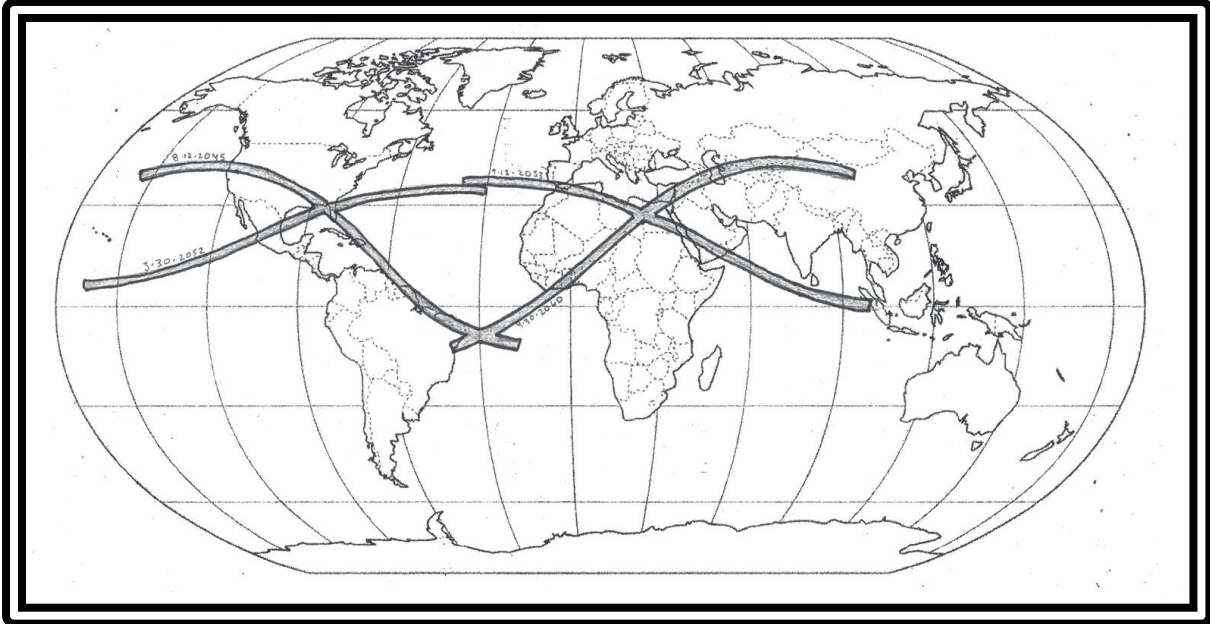
Above: Hepton Two Chapter Eight 2028 to 2048

A comparison of the Hepton Crosses 2017 to 2034 and the Hepton Crosses of 2045 and 2060

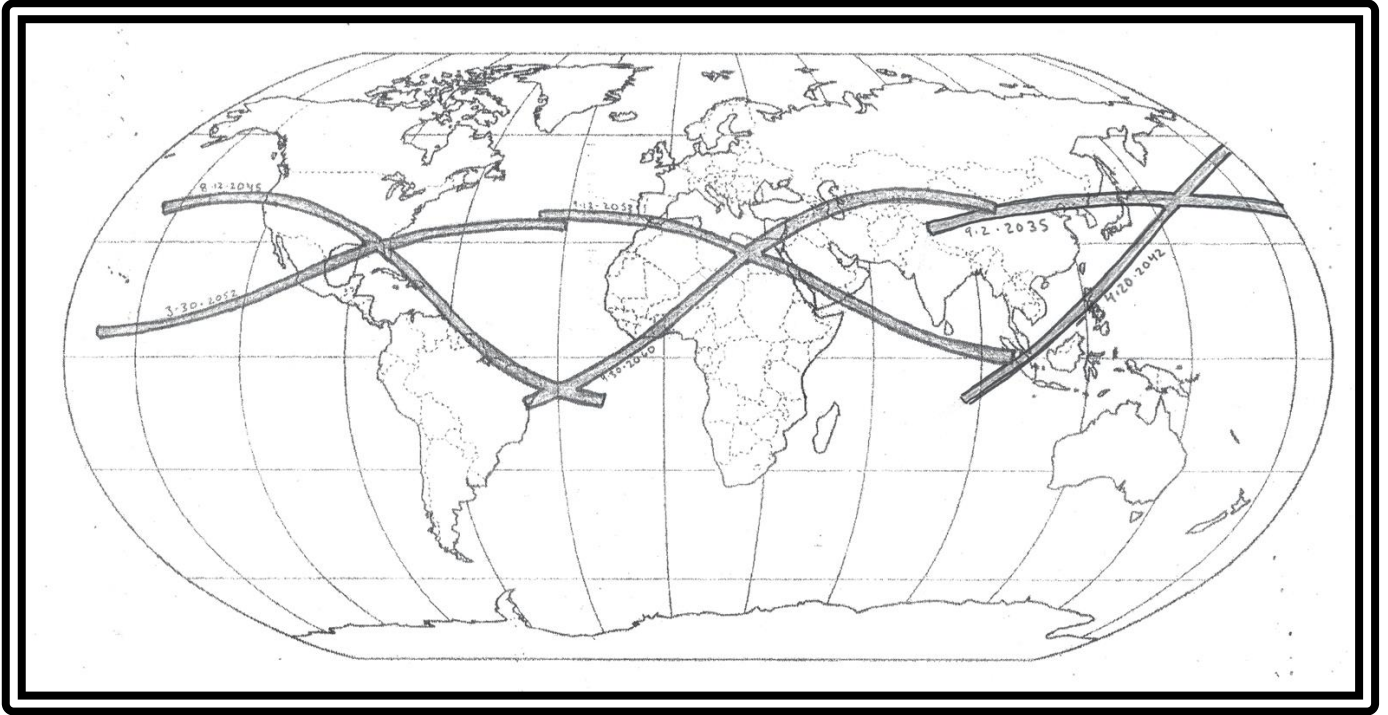


Above—2017 to 2034

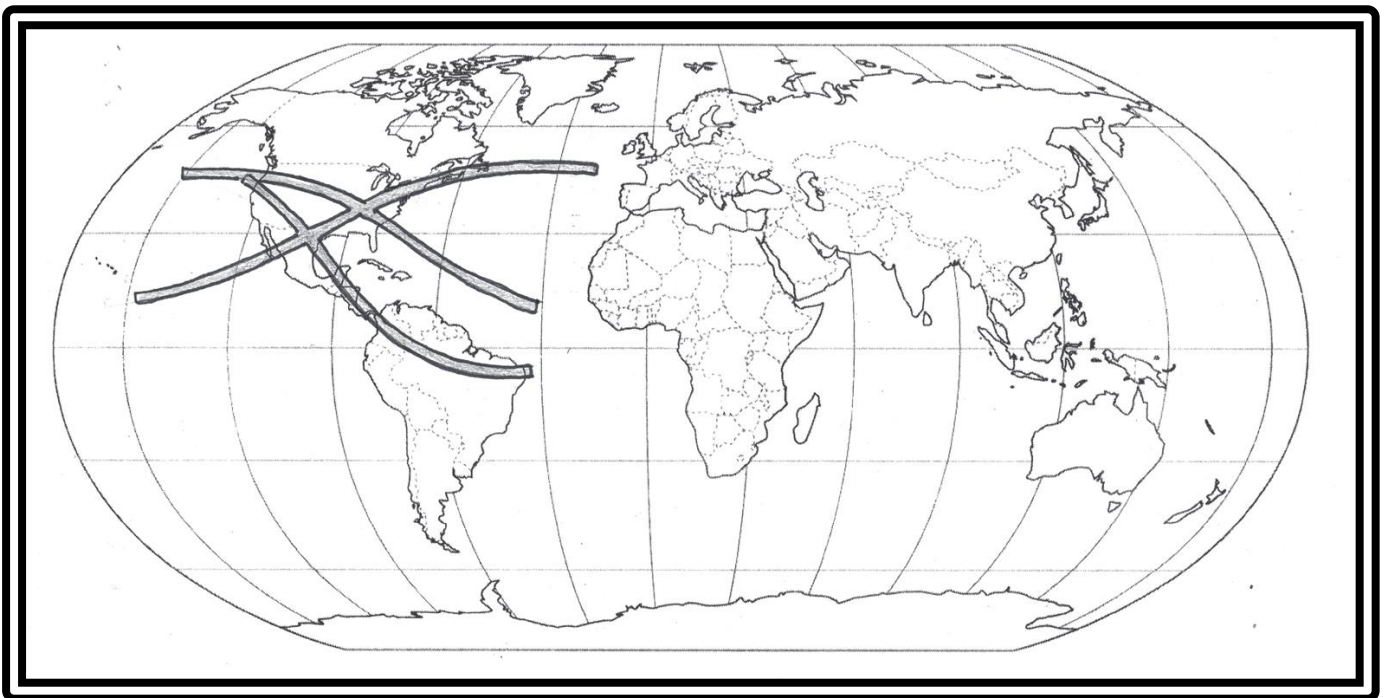
Below: Switcharoo Hepton Crosses 2045 to 2060



Below: Special Hepton Triple Cross 2035 to 2060



Below: American Hepton Aleph 2017 to 2024



Cosmic Art from God.