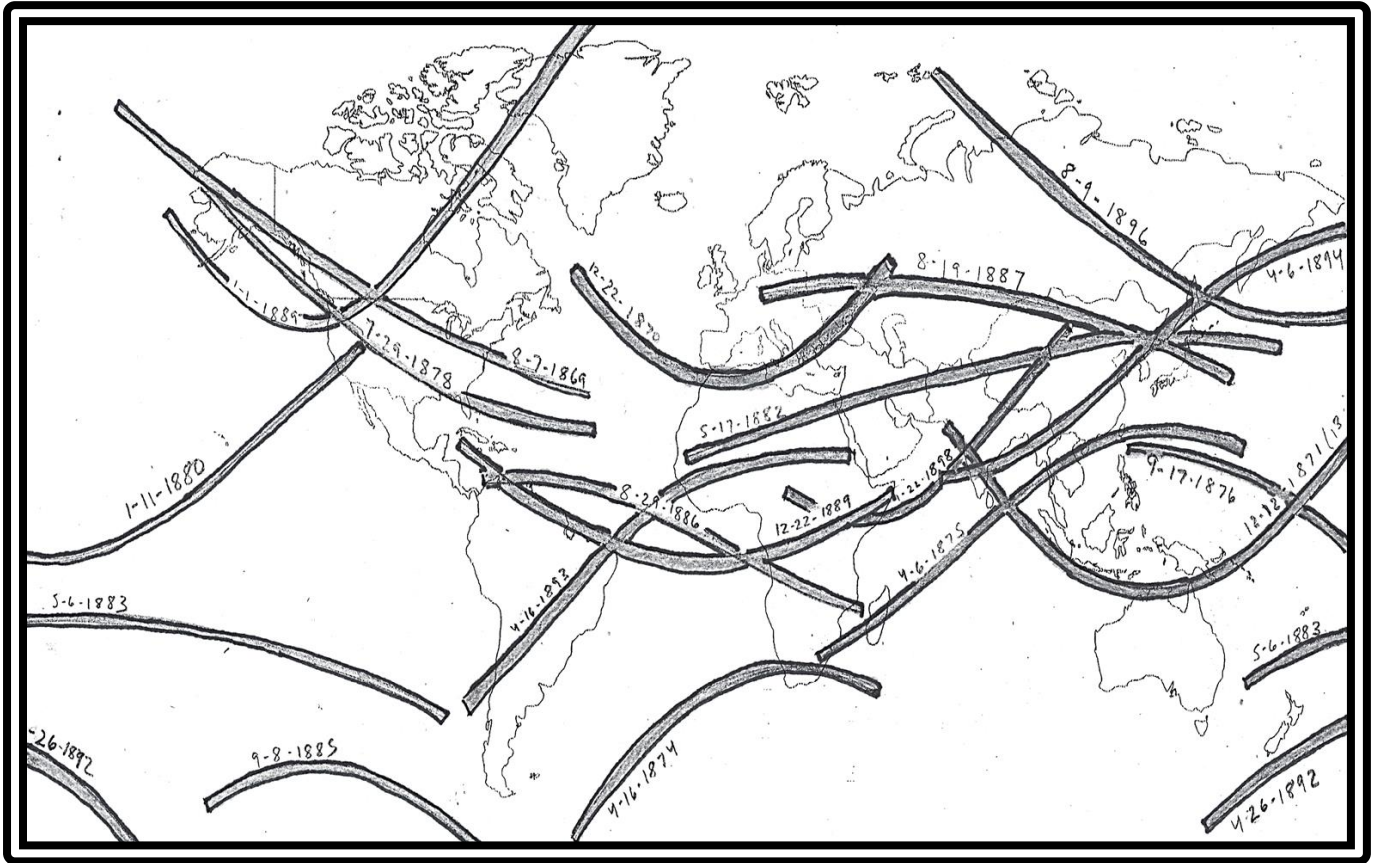


Chapter Eleven:

World Eclipses 1869 to 1955

1869 to 1898



Total Eclipses 1869 to 1898

This 29-year span is presented as a comparison of the 1869-to-1898-time frame to our current time frame. We are looking for overland balanced Hepton Crosses similar to the ones we are currently experiencing. Careful study of the image reveals that there are no balanced overland Hepton Crosses such as appear in the Monday Hepton Judgment that is the main subject of this work.

In the map above, the most interesting clusters are found over the northwest USA (more closely mapped in the USA eclipse section) between 1869 and 1889, and in the northeast coast of China above the Korean Peninsula between 1882 and 1896. That cluster includes the Berlin Sunrise Eclipse of 1887 Aug 19, which we look at before we start the main survey. How are we to examine such a confusing-looking phenomenon? There has to be an editing mechanism, a way of eliminating clutter that maintains chronology. How to see the patterns complete eclipses make? To comprehend eclipses over large time spans requires us to divide them into slices of time. Fortunately, eclipses themselves provide the mechanism. They divide neatly into 19-year Metonic time frames.

19-year Metonics begin and end with eclipses that occur on the same day of the year, 19 years apart.

Using The Metonic to Create Chapters of Eclipse History

As we studied earlier, the 19-year Metonic is where the three separate calendars of solar year, lunar month and eclipse year perfectly connect at almost exactly 6,940 days. This nearly impossible arrangement allows for eclipses to occur on the same dates of the year for extended periods of time.

The main focus of our study is the eclipses occurring in the exactly 19-year solar period Spring Equinox Metonic of March 20 2015 to March 20 2034. As we've seen, there are profound total solar eclipses on both these March 20 dates, and lots of interesting eclipses in between. The Spring Equinox Metonic becomes our starting place. We then go backwards in time, and the eclipses themselves create chapters of eclipse Metonics, with bookend dates on eclipses, leaving no eclipse behind! Partial Eclipses often provide natural boundaries between the chapters- almost resets, if you will.

I name each Metonic to help distinguish them.

Feb 14 Valentine's Day Metonic: Feb 13/14 1896 to Feb 14 1915

Aug 10 Temple Destruction Metonic: Aug 10 1915 to Aug 10 1934

Dec 25 Christmas Metonic: Dec 25 1935 to Dec 25 1954

Jun 20 Summer Solstice Eve Metonic: June 20 1955 to Jun 20 1974

Apr 29 Hitler Death Eve Metonic: Apr 29 1976 to Apr 29 1995

Oct 24 United Nations Day Metonic: Oct 24 1995 to Oct 23/24 2014 (partial)

Mar 20 Spring Equinox Metonic: Mar 20 2015 to Mar 20 2034

These seven chapters in a 138-year story provide an overview of cosmic timekeeping. They contain every complete solar eclipse on earth during that time. In the middle of the chapters and between the chapters are often sets of partials. For instance, in the 22 month stretch between Jun 20 1974 and April 29 1976 are three partials. All partials are listed in the survey in small print, but not mapped.

Careful observation reveals a pattern of repetitive dates over the course of the entire survey. That's because we are only dealing with about 36 repeated Metonic clicks of the eclipse clock. These typically return a few times and then lurch forward.

The pattern for the Metonic date progression is usually this:

19 years + 19+19 then an 8-year lurch (where the date of eclipses jumps forward one or two days) then 19+19+19 then an 8-year lurch etc...

Dates can be one day forward or back due to the reality of time zones, date lines and orbital realities.

August 21 Metonic Example

For example, our current late-August Eclipse Metonic is August 21. That means all late August eclipses basically land on that date. Eclipses must land on August 20, 21st or August 22nd. If it is creating August 19th eclipses, it must belong to that prior Metonic date (either August 18, 19 or 20). We then go back in the eclipse record and note that, yes indeed, there was a solar eclipse on August 19 1887 from Berlin to China. If it is creating August 23rd eclipses, then it must belong to the Metonic between the 22nd and 24th. This occurs on August 23 2044, when the Metonic has officially moved on. It is a

slippery yet oddly consistent phenomenon, made possible only by the incredible alignment of the Draco-Metonic Calendar. The cosmic timekeeping of the Metonic provides a history of the August 21st Metonic's 120-year reign during our current approximately 500-year cycle. The last Metonic prior to Aug 21 Metonic was on August 19. It showed up in **1887 Aug 19 Berlin Omen Total Eclipse**.

Then we had: an August 20, 1906 Partial eclipse then
August 21 1914 World War One Eclipse ...then 19 years...
August 21 1933 Jerusalem Ring of Fire...then 19 years...
August 20 1952 Nazca Lines Ring of Fire...then 19 years
August 21 1971 Partial solar eclipse ...then an 8 year lurch
August 22 1979 Ring of Fire near Antarctica... then 19 years
August 22 1998 Ring of Fire in Indonesia..then 19 years
August 21 2017 Great American Eclipse...then 19 years
August 21 2036 Partial Solar Eclipse
...then 8-year lurch to August 23 2044. By 2100 that same impulse is August 25.

See? It makes sense.

There are nine August 21-ish Metonic eclipses (including partials) in a 120-year span...Between 1906 and 2036 there were a grand total of 326 solar eclipses (including partials). This means that the August 21st Metonic occupies 1/36th of all eclipses that occurred—very close to the average of what the math should bring. There should be about 36 repeating dates sliding in and out of prominence.

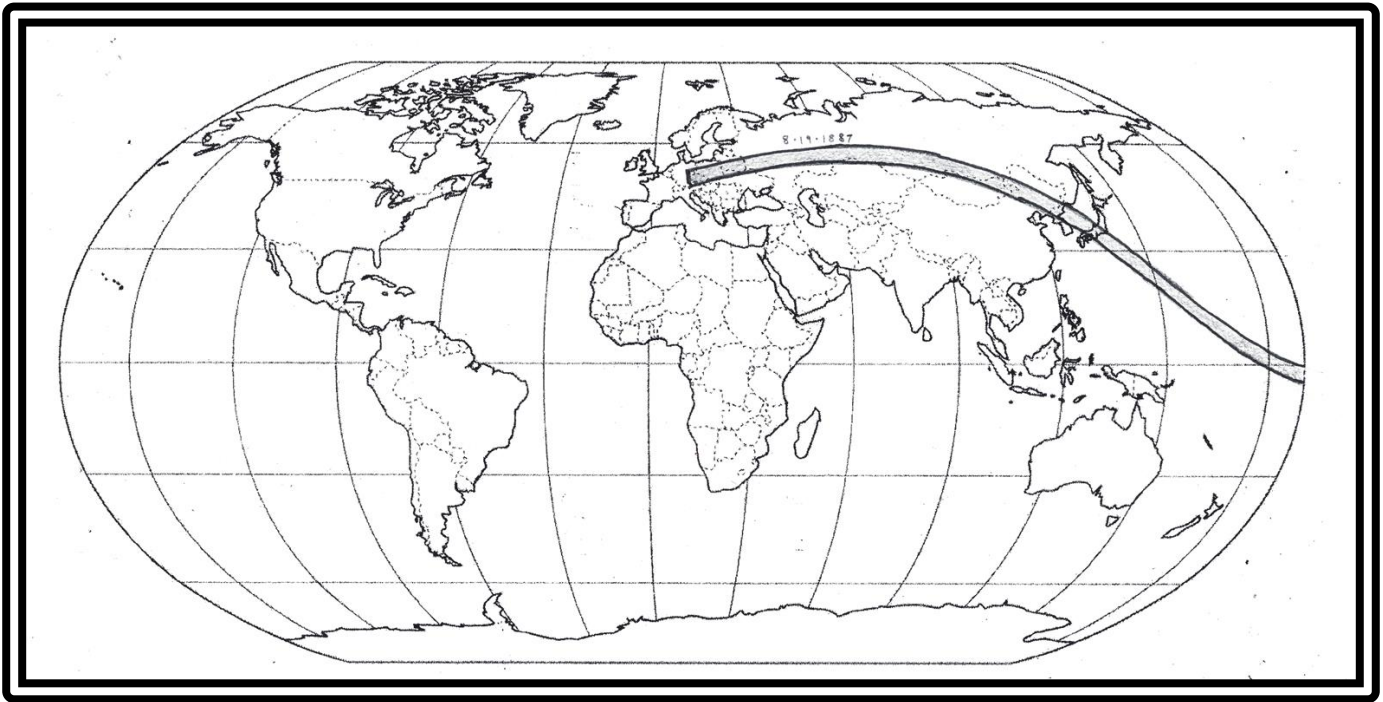
You will find very little hard and fast about these dates. They slip and slide a bit. But even a child can see the repetitive date factor at work throughout the survey of eclipses. Importantly, there will be partial eclipses which interrupt the progression of complete eclipses. They seem to work as a sort of reset, or breather. These are listed in the progression, but not studied.

Even if you don't fully understand, try looking at the maps and reality should make itself manifest.

Some Things to look For:

- Repeating dates. Every 19 years look for the same or similar date to reappear.
- Lots of Crosses and clusters. Only a few of the longer seven and eight year crosses will be apparent in this chapter, as the maps generally represent shorter time frames.
- Lunar year triads and duos. Eclipses often occur exactly one lunar year apart from each other. A lunar year, or 12 complete cycles of the moon, is about 354 days. A lunar year separation will appear from one year to the next as minus 10, 11 or 12 days. Modern example One lunar year separated the total eclipses of Dec 14 2020 to Dec 4 2021.
- Hepton eclipses. There are two sets of 7 eclipses each in the Hepton cycle occurring throughout this chapter. These are 1211 days apart from each other (7 eclipse seasons) and almost always occur on the same day of the week.
- Octon eclipses. 8 eclipse years apart from each other (7 years, 7 months and 7 days)
- You'll see lots of patterns in Saros numbers. The Saros are related. They leap by fives and tens. For instance you will see Saros 119 (1896 Feb 13 ring of fire) followed one lunar year later by Saros 129 (1897 Feb 1), exactly 10 Saros numbers apart.
- Is there a plausible relation between the paths and the world events and empires which they seem to correlate with? Judge for yourself.

Berlin Sunrise 1887 Aug 19 Total Eclipse



Prior to our full accounting of all world eclipses from 1896 to 2034, one peculiar eclipse stands out.

The Total eclipse of 1887 Aug 19 begins at sunrise just west of Berlin, Germany and brings Totality to that city for the first time since 1424 (463 years) and the last time until 2135. It was the first complete solar eclipse of any kind over central Berlin since 1547, 340 years prior. Berlin has only had 8 total eclipses since the birth of Jesus, including one in 29 AD, which also skirted the Holy land.

This 1887 eclipse occurs 610 days before birth of Adolf Hitler in Branau Aum Inn, Austria on Apr 20 1889, Probably about 95%+ coverage at Hitler Birthplace.

The eclipse is 27 years and two days before 1914 Aug 21 World War One Eclipse. A 19 year Metonic plus 8 year lurch. Essentially the same Metonic.

The path: Many would suffer terribly in the next 50 years. In path: Germany, Poland, Baltics, Russia, China, Korea and Japan

Germany: Germany had the highest military death toll In WWI with some two million dead (Hitler was wounded). More than four million more German soldiers and civilians died in WWII.

Poland: Eclipse includes totality at future Auschwitz. Six million Poles died in WWII alone.

Lithuania, Latvia and Belarus: All were battlegrounds in WWI and II

Russia: totality in Moscow. At least 3 million Russians died in WWI, 20 million died in civil wars and famines after the revolution of 1917 and 25 million more died in WWII.

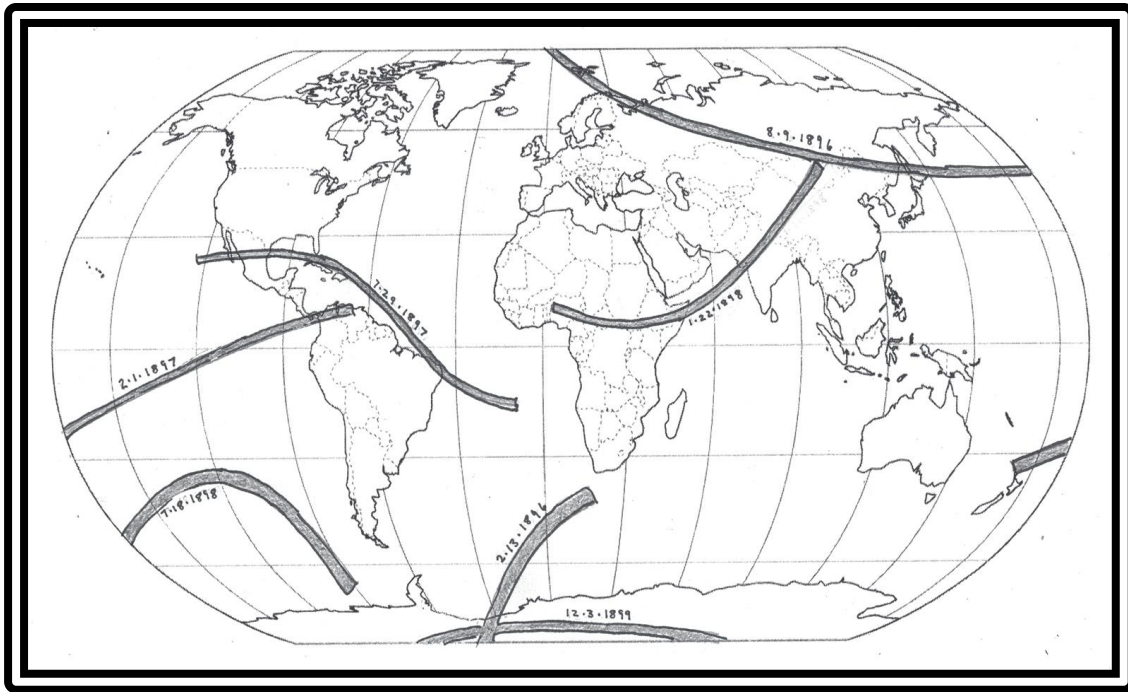
China: Chinese deaths in WWII are around 20 million. Perhaps 30 to 50 million more died in the civil wars, purges and famines of the 20th Century.

Korea: Korea's brutal war of 1950 to 1953 may have killed up to 8 million Koreans.

Japan: Japan lost at least 3 million in WWII.

Valentine's Day Metonic Feb 13 1896 to Feb 14 1915

Beginning with 1896 to 1899



1896 to 1899-Last eclipses of 19th Century

- 1896 Feb 13/14 Ring of Fire: Antarctica - Saros 119
- 1896 Aug 9 Total: Russia/Japan -Saros 124
- 1897 Feb 1 Ring of Fire Pacific to Colombia -Saros 129
- 1897 Jul 29 Ring of Fire Mexico, Caribbean to Natal, Brazil -Saros 134
- 1898 Jan 22 Total Africa, India, China - Saros 139
- 1898 Jul 18 Ring of Fire South Pacific - Saros 144
- 1899 Dec 3 Ring of Fire Antarctica near south pole -Saros 121

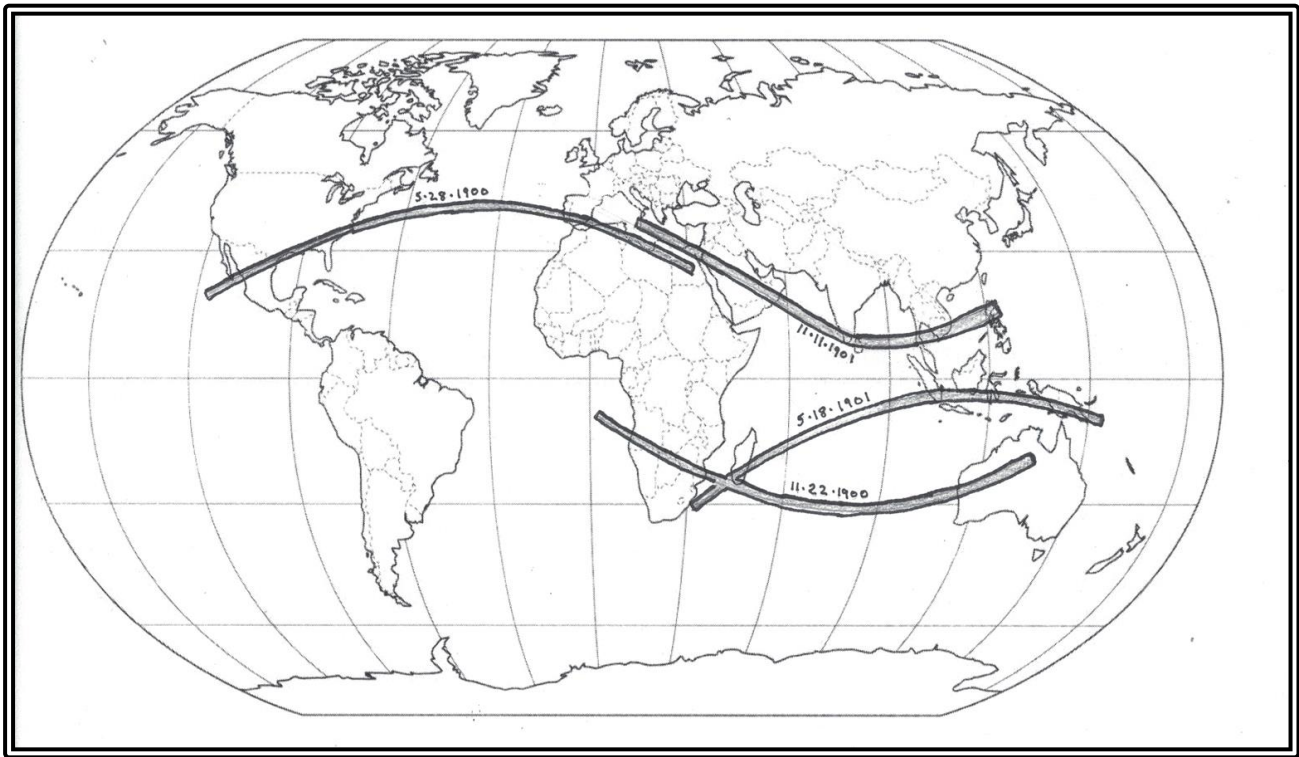
The last eclipses of the 19th Century.

Russia and Japan are linked by the 1896 Eclipse, just as they had been by the 1887 Berlin Sunrise eclipse. They will be at war within 8 years.

1897 Feb 1 has an eclipse over Pan-American isthmus seven years before USA takes over construction of the Panama Canal. July 1897 sees eclipse over Cuba about six months before the explosion of Battleship Maine in Havana harbor in Feb 1898 ignites Spanish-American war.

China and India are linked by an eclipse in 1898, as both were under British Rule. Eclipse occurs as tensions between the Chinese and colonial powers were reaching a boiling point, about 18 months before The Boxer Rebellion.

First Four Eclipses of the 20th Century 1900 and 1901



1900 and 1901

1900 May 28 Total America to Egypt -Saros 126: The first solar eclipse of the 20th Century connects empires past, present and future on the first JFK birthday Metonic in 500 years (he was born 17 years later on May 29 1917). Beginning in the Pacific, path crosses Mexico, hugs the US gulf Coast. Totality in New Orleans, Montgomery, and Raleigh--exiting at Virginia Beach. 98% totality in DC. 92 % in New York City, 90% in JFK birthplace of Brookline, Mass.

Eclipse bisects Portugal and Spain, the first colonizers of New World, almost exactly 402 years after Columbus left on his third voyage to the Americas in 1498 May 30, and 400 years after Columbus was sent in chains back to Spain for trial in 1500. The eclipse directly crosses Algiers, Algeria, and Tripoli Libya before ending a few miles south of the Valley of the Kings in Luxor Egypt, revisited by two eclipses in 2027 and 2034 - examined in depth at US and Mideast section.

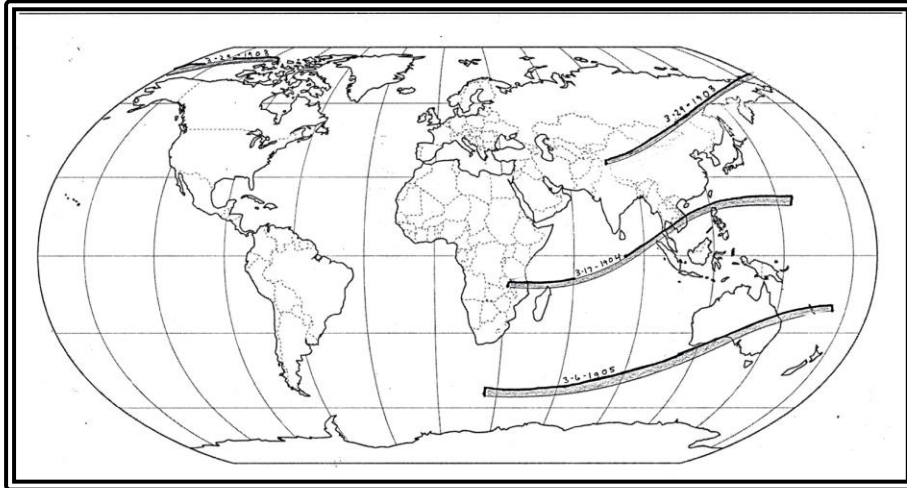
1900 Nov 22 Ring of Fire Africa to Australia- Saros 131 –JFK Death Day Metonic (exactly 63 years before his death). The side-by-side JFK Metonic is examined in “Personalities” section.

1901 May 18 Total South Africa to New Guinea- Saros 136 Pope John Paul Birthday 19 years later. Mt. St. Helens erupts 79 years later. Only time May 18 appears as a complete eclipse date for centuries.

1901 Nov 11 “11-11” Ring of Fire Mideast to Southeast Asia-Saros 141 17 years to the day before WWI armistice. Bizarre numeric created by ones and elevens. According to NASA, maximum eclipse was 11 minutes and 1 second. Thereby creating an 11:01 minute eclipse on 11-11-01

Partial Solar Eclipses Occur 4-8-1902/ 5-7-1902/ 10-31-1902

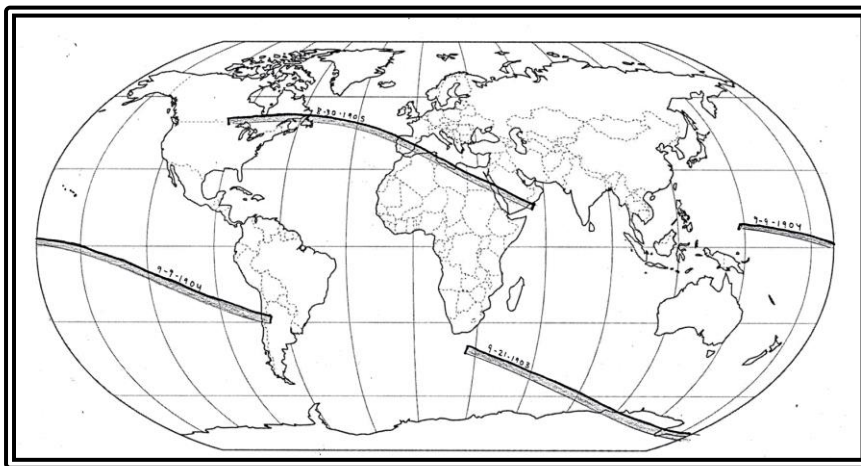
1903 to 1905 Lunar Year Triads



1903 to 1905 Ring of Fire Triad

- 1903 Mar 29 Ring of Fire China/ Russia -Saros 118**
- 1904 Mar 17 Ring of Fire Africa to Southeast Asia - Saros 128**
- 1905 Mar 6 Ring of Fire Australia Gold Coast -Saros 138**

A good example of a balanced triad of annular eclipses. Each follows exactly one lunar year (354.3 days) after the other. In this case, the eclipses progress south in latitude in a very orderly fashion.



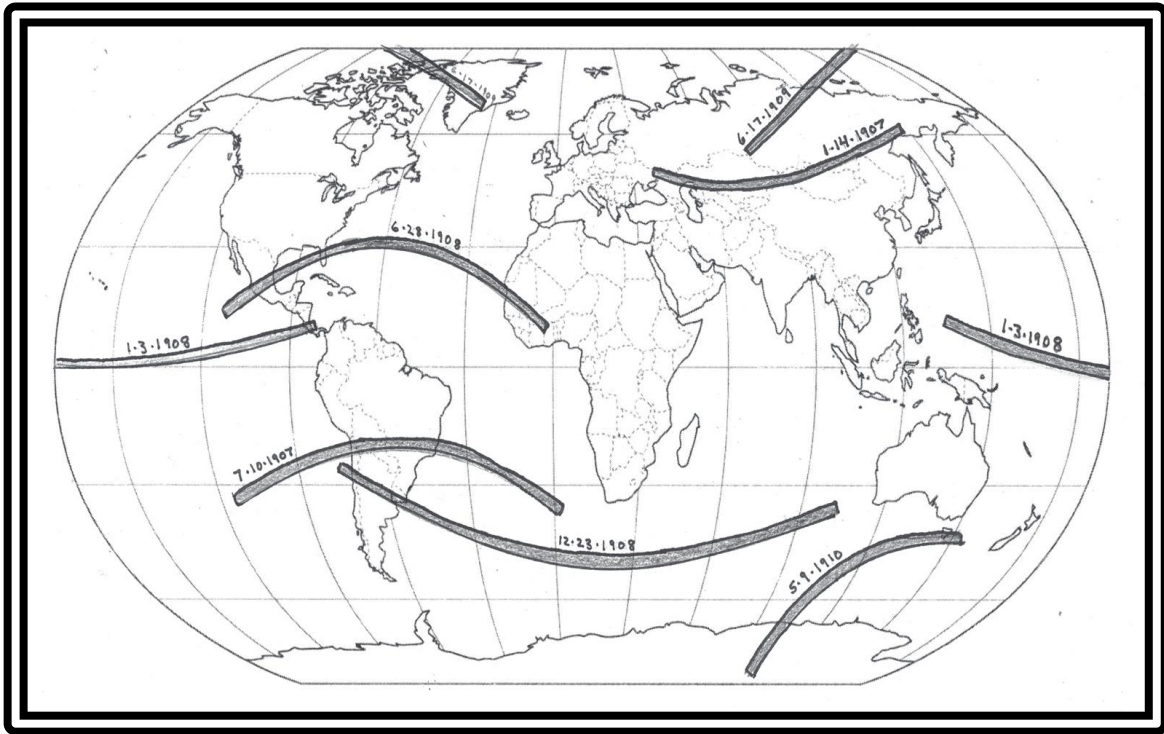
1903 to 1905 Total Eclipse Triad

- 1903 Sep 21 Total Equinox Indian Ocean to Antarctica- Saros 123**
- 1904 Sep 9 Total Ocean to Chile (Atacama) - Saros 133**
- 1905 Aug 30 Total North America to Spain/ Egypt (Luxor) /Mecca- Saros 143**

Concurrently with the Ring of Fire Triad shown in the previous grouping, there is this total eclipse triad. Triad travels south to north over the course of the three years, in the opposite direction as the ring of fires. Notice the variation in the geographic location as compared to the last. Aug 30 1905 Total Eclipse (part of 1900 to 1905 Egypt Eclipse swarm) is looked at in detail in the Mideast Eclipse section.

Partial Solar Eclipses occur on 2-23-1906/ 7-21-1906/ 8-20-1906

1907 to 1910



1907 to 1910

- 1907 Jan 14 Total Future USSR Southern Boundary- Saros 120**
- 1907 Jul 10 Ring of Fire South America- Saros 125**
- 1908 Jun 28 Ring of Fire Temple of Sun and Moon/Cape Canaveral -Saros 135**
- 1908 Jan 3 Total Pacific Ocean to American Isthmus- Saros 130**
- 1908 Dec 23 Hybrid South America to Indian Ocean- Saros 140**
- 1909 Jun 17 Total Russia- Saros 145**
- 1910 May 9 Total Antarctica to Tasmania- Saros 117**

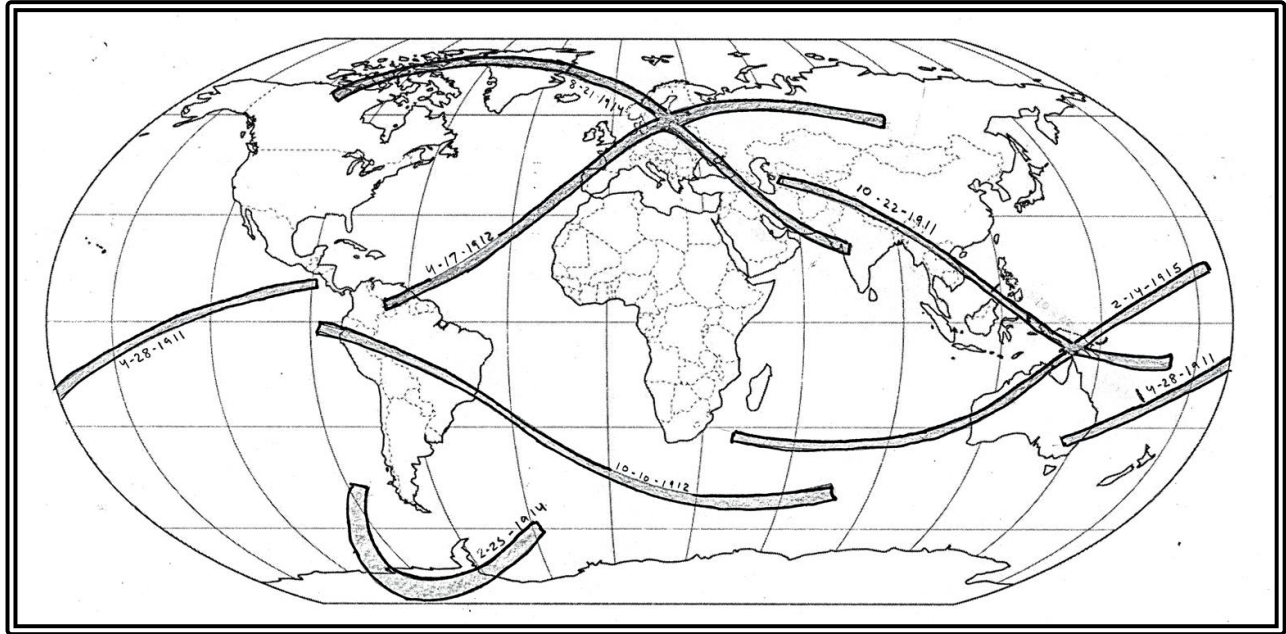
The 1907 eclipse starts on border of Ukraine, bisects Kazakhstan, Mongolia

The 1908 Ring of Fire, which connects the Aztec Temples of the Sun and Moon, Cape Canaveral and Africa is looked at closer in the USA section.

There are two Eclipses over Russia (there will be four eclipses within ten years prior of the 1917 Revolution).

1908 eclipse travels open ocean to die over Pan-American Isthmus in Panama, something that occurs with striking frequency in this survey.

Last Eclipses of Valentine's Metonic: 1911 to 1915



1911 to 1915 (end of Valentine's Day Metonic)

1911 Apr 28 Total Eclipse Australia almost to Central America- Saros 127

1911 Oct 22 Ring of Fire South Asia to New Guinea- Saros 132

1912 Apr 17 Hybrid Titanic Eclipse Colombia/ Europe/ Russia -Saros 137

1912 Oct 10 Total Peru/ South America/ Ocean -Saros 142

1914 Feb 25 Ring of Fire "Endurance" Eclipse Antarctica- Saros 119

1914 Aug 21 Total World War One Eclipse Mideast/ Europe/ North America- Saros 124

1915 Feb 14 Valentine's Day Ring of Fire Darwin Australia/New Guinea-Saros 129

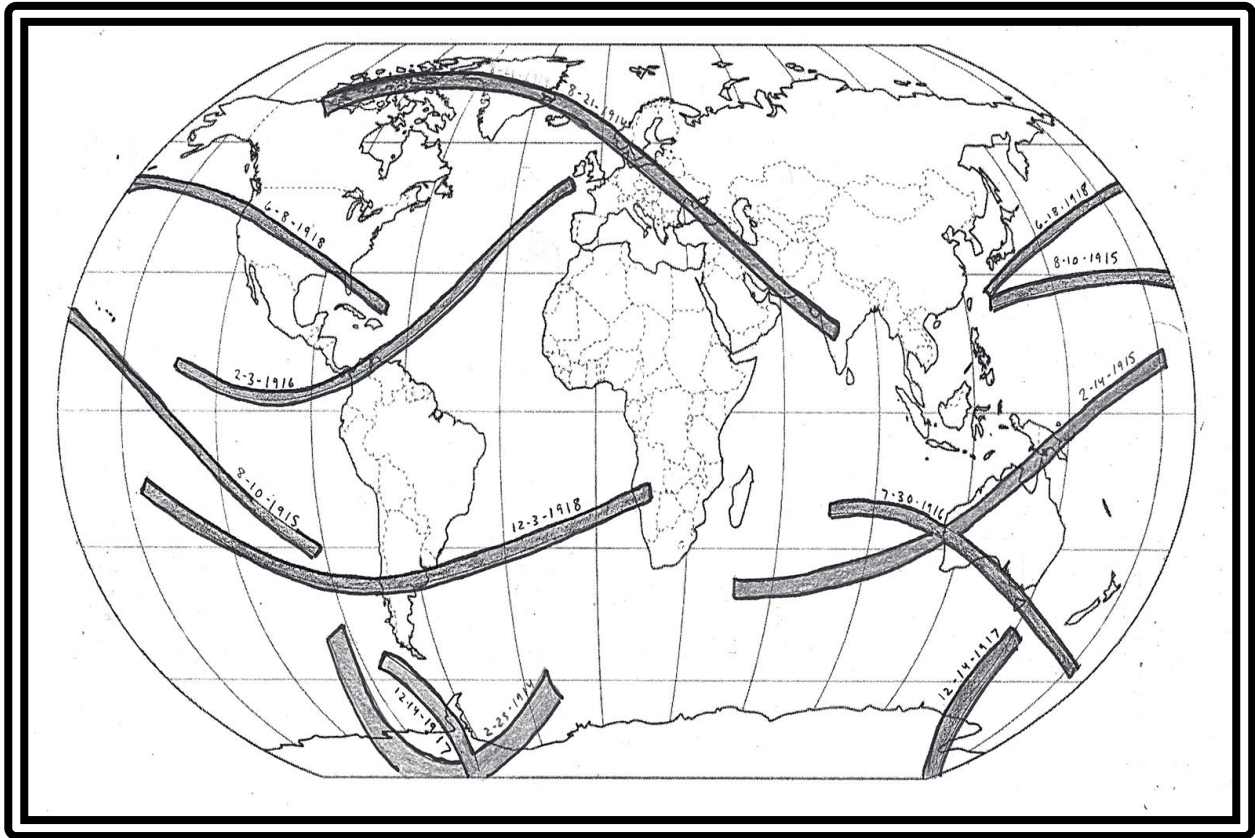
Two obvious crosses in seven eclipses. One over New Guinea (far lower right of map) between 1911 and 1915. One over Europe with apex in Baltic Sea not far from St. Petersburg Russia. We will look in depth at a couple of the eclipses in this section.

The Titanic Eclipse April 17 1912 - Saros 137 60 hours after the sinking of the Titanic on the night of April 14/15 1912, a Hybrid solar eclipse occurs in the Atlantic, through Europe and deep into Russia. A great solar eclipse marking the most famous man-made disaster of all times, the legendary sinking of the Titanic, the largest ship ever launched, the symbol of modern technology, the "unsinkable". She was sent to a watery grave on her maiden voyage along with more than 1,500 people. Path goes just south of Southampton, England (90% coverage) where Titanic launched a week before. 35% coverage at the site of the disaster in Atlantic southeast of Newfoundland. 18% coverage at intended harbor of New York. Path cuts a foreboding shadow across Europe two years before World War One. Stripe of Totality divides metropolitan Paris. Larger path of annularity goes through France, Belgium, Germany, Baltics, and Russia.

The Titanic Eclipse creates a distinctive cross with August 21 1914 World War One Eclipse, looked at in more detail in next section. This is the end of The Valentine's Day Metonic of 1896 to 1915.

partials occur on 4-6-1913/ 8-31-1913/ 9-30-1913

World War One 1914 to 1918



World War One Eclipses 1914 to 1918/ Temple Destruction Metonic

Aug 10 1915 to Aug 10 1934 is the Temple Destruction Metonic, August 10 was the Julian Calendar date Jerusalem was destroyed and the Temple burned by Rome in 70 AD. The Aug 10 Metonic begins one lunar year after the World War One eclipse of Aug 21 1914. In this section we will look at all eclipses that occurred during the years 1914 to 1918, the years of the first World War.

- 1914 Feb 25 Endurance Ring of Fire Eclipse Antarctica- Saros 119
- 1914 Aug 21 World War One Total Eclipse Europe/Mideast- Saros 124
- 1915 Feb 14 Ring of Fire Australia/New Guinea- Saros 129
- 1915 Aug 10 Ring of Fire Pacific Ocean- Saros 134
- 1916 Feb 3 Panama Isthmus almost to England Total Eclipse -Saros 139
- 1916 Jul 30 Ring of Fire Australia/Tasmania-Saros 144
- 1917 Dec 14 Ring of Fire Antarctica -Saros 121
- 1918 Jun 8 USA Cross Country Total Eclipse -Saros 126
- 1918 Dec 3 Atacama earthquake eclipse Ring of Fire- Saros 131

The WWI eclipses overlap Valentine's Day (Feb 14) and Temple Destruction (Aug 10) Metonic Cycles.

Nine complete solar eclipses occur between 1914 through 1918. All are pictured in the map on the previous page. Seven of the eclipses occurred during hostilities associated with the First World War, the single deadliest war in history up to that point. Due to peculiar orbital realities and calendars, complete eclipses occur in each of the six years in a row from 1914 to 1919, a fairly rare occurrence. The eclipse paths do not touch except in extreme southern hemisphere.

1914 Feb 25 Ring of Fire Endurance Eclipse Antarctica- Saros 119 The eclipse occurs on Feb 24 1914 in Antarctica, near the coming shipwreck of the ill-fated Endurance South Pole Expedition which left England on August 8 1914. One of the maximum expression survival stories of all time, the expedition of the crew of Earnest Shackleton lived and struggled for two years in the Antarctic wilderness.

1914 Aug 21 Total World War One Eclipse Europe/Mideast- Saros 124 One of the most clearly ominous eclipses of all time. In the first weeks of World War I, a total solar eclipse descends from the Northern latitudes above North America and divides the Eurasian land mass. The first shot fired by a British soldier in World War One came the next day on August 22 1914 in the village of Casteau in Belgium (60.7% coverage). Empires affected include the Ottoman, Persian, British, French, German, Russian and Austro-Hungarian empires. Scandinavia split in half. Great cities in totality include Kiev, Ukraine-Karachi, Pakistan and the ancient city of Nineveh (modern-day Mosul) in Iraq. Saros Cycle 124. The full path connects both hemispheres in both eclipses, the path intersects the Titanic Eclipse of Apr 17 1912 near St. Petersburg, Russia.

1916 Feb 3 Total Panama Isthmus almost to England -Saros 139 Fourteen months before entrance of the USA into World War One, a total eclipse crosses the Pan-American Isthmus to almost reach the shores of England.

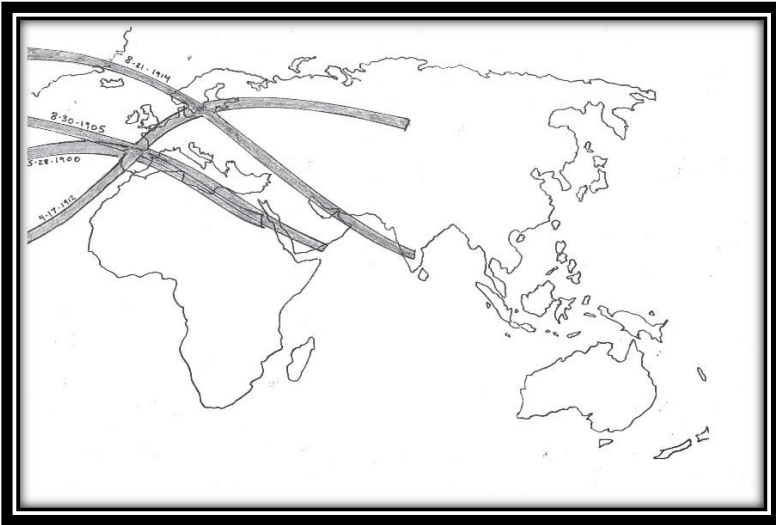
1917 Dec 14 Ring of Fire Antarctica - Saros 121 An interesting example of the 103 year repeating Metonic. Exactly 103 years after this eclipse comes the Electoral College Eclipse of Dec 14 2020, which crosses Southern South America while the President and Vice-President of the USA are being elected. 103 years is a long-lasting Metonic.

1918 Jun 8 Total USA Cross-Country- Saros 126 The first American Cross County eclipse in 112 years and the last for another 99. Happens in the final months of World War One, as American forces were fighting to a stalemate in the Battle of Belleau Wood, and the Spanish Flu had begun to rage across the country. This total solar eclipse marks the beginning of the American century, which would come to an end 99 years later with a very similar (but convex mirrored) eclipse on August 21 2017. Saros cycle 126, which began the Century on 1900 May 28 with USA to Egypt Eclipse and reappears in Spanish judgment on August 12 2026. Take a closer look in the USA section.

1918 Dec 3 Ring of Fire Atacama Earthquake eclipse- Saros 131 This eclipse is a startling example of an earthquake/eclipse conjunction. The ring of fire crosses the Atacama Desert in Chile on Dec 3. 24 hours later, an 8.2 magnitude earthquake leveled the city of Atacama. Of course, Chile is an especially earthquake-prone region. But still...

partials occur on 12-24-1916/ 1-23-1917/ 6-19-1917/ 7-19-1917

You will note that complete eclipses occurred in every calendar year from 1914 to 1919, essentially the outside limit for consecutive years to contain complete eclipses.

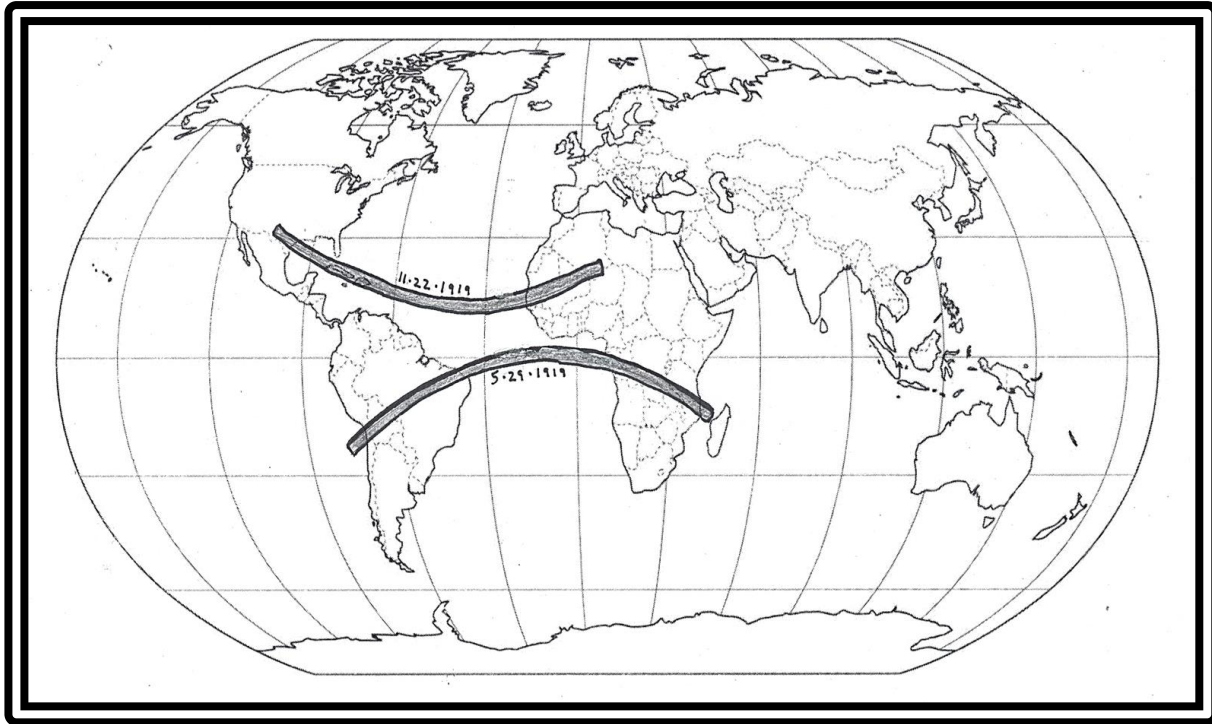


Above: Europe/Spain/Egypt 1900 to 1914



Above Titanic 1912 and WW1 1914

1919 JFK Birthday/Death day Eclipses

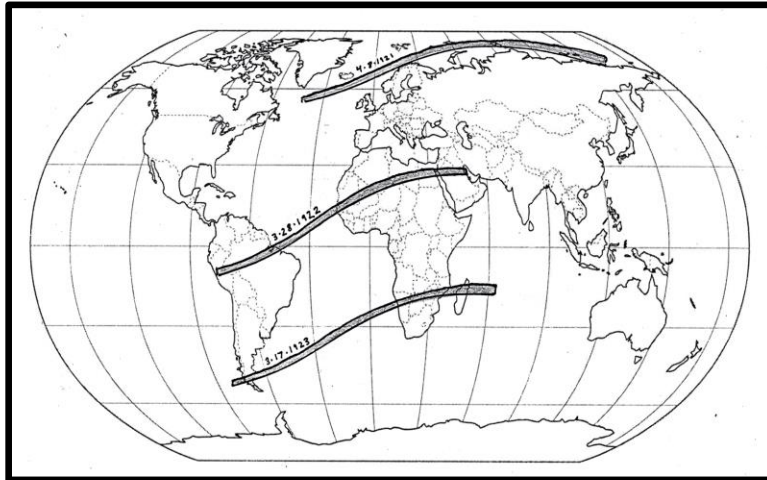


1919 JFK Birthday of May 29 and JFK Death Day of Nov 22 Eclipses

1919 May 29 Total Einstein's Eclipse (Saros 136) On John F. Kennedy's second birthday (he was born May 29 1917), Einstein's theory of Relativity is finally proved by observation of the total solar eclipse. Two teams, one in Brazil and one in Africa take the simultaneous measurements that prove it correct. The longest eclipse duration (at nearly 7 minutes) since 1416 AD. Saros Cycle 136, one of the stars of the Judgment series--reappearing notably in Mideast Valley of the Kings eclipse on August 2nd 2027

1919 Nov 22 Ring of Fire Texas Sunrise/ JFK Death day (Saros 141) 177 days later, on 11-22-1919, exactly 44 years before JFK assassination, thereby making the exact dates of JFK's birth and death commemorated in successive eclipses while he is alive in the same hemisphere. A Ring of Fire Eclipse in Texas, the state where JFK would be murdered 44 years later is the place where the eclipse begins at sunrise. Total annularity in Stonewall Texas, home to a then 10-year-old Lyndon Baines Johnson, who would replace JFK as president exactly 44 years later on 11-22-1963. Total annularity in the capital of Austin and in Houston. --path over almost entire island of Cuba , with which JFK's destiny would become intertwined, then across Haiti, St. Georges' , Kingston, Port of Spain--then across the Atlantic to Africa, where the path reached the countries of Senegal and Mali, both of whose presidents visited Kennedy's White House. Eclipse ends after totality in ancient city of Timbuktu. The amazing Saros Cycle 141, which starred in Farewell Abraham Eclipse of 1865 among many others. Saros 141 reappears in Australia Day Spanish Judgment of Jan 26 2028.

partial eclipses occur May 18, 1920, the day John Paul II is born (also 60 years to the day before Mount Saint Helens eruption) and on November 10, 1920



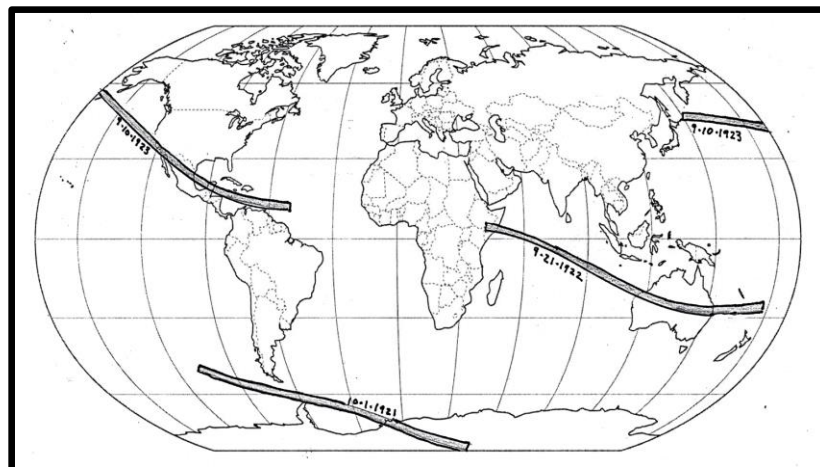
Eclipses 1920 to 1923—Ring of Fire Triad

1921 Apr 8 Ring of Fire Northern latitudes/USSR Buddha Birthday -Saros 118

1922 Mar 28 Ring of Fire Egypt Independence/ King Tut Eclipse -Saros 128

1923 Mar 17 Ring of Fire Patagonia to Madagascar - Saros 138

A great example of how eclipses can progress by lunar year. Three rings of fires exactly one lunar year apart from each other (354.3 days). 1921 Buddha Birthday Eclipse is exactly 103 years from Apr 8 2024 USA eclipse, an example of the 103 year Metonic. The 1922 Egypt Independence / King Tut Eclipse is looked at closer in the Mideast Eclipse section. This Triad is extremely balanced as it progresses from north to south. Notice how the Saros number increases by tens from 118 to 128 to 138.



Eclipses 1920 to 1923—Total Triad

1921 Oct 1 Total Antarctica -Saros 123

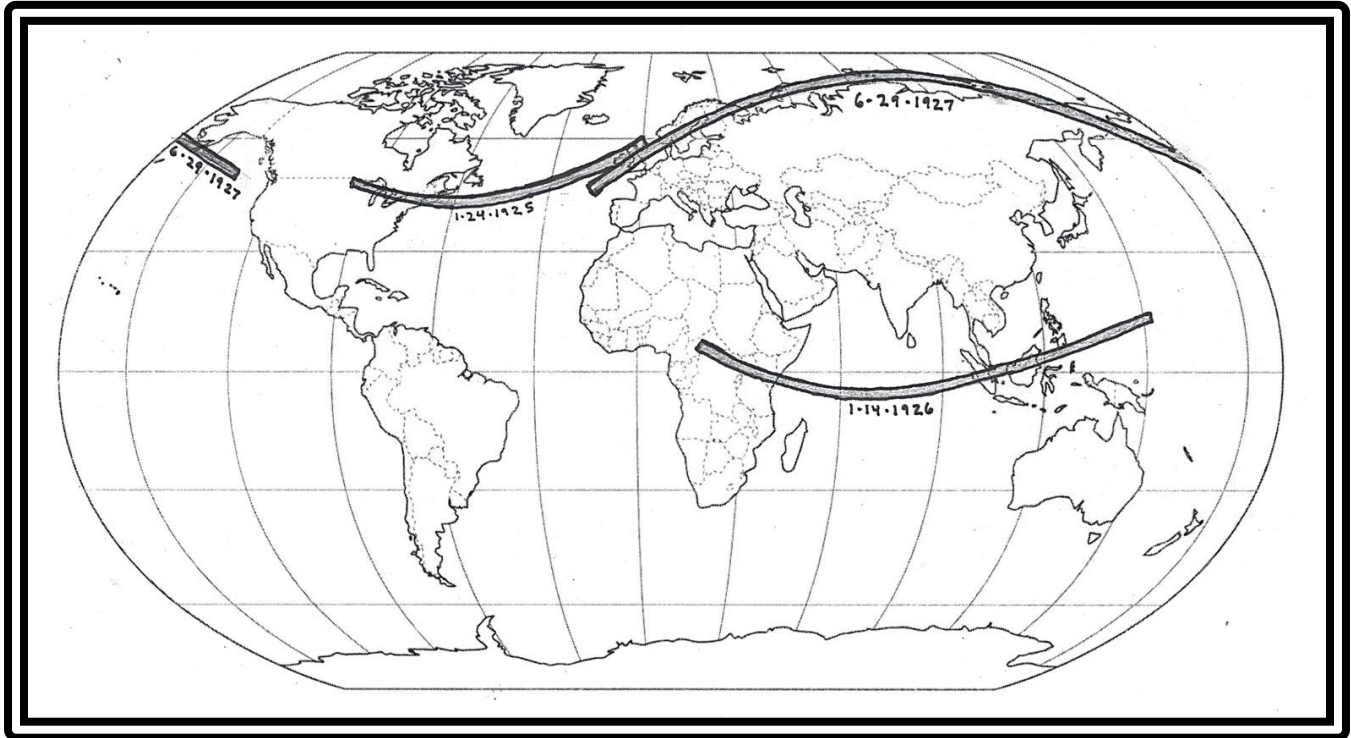
1922 Sep 21 Total Equinox Africa to Australia -Saros 133

1923 Sep 10 Total Japan Earthquake/ Southern California -Saros 143

Here are the total eclipses of 1921 to 1923, also in a lunar year triad. The 1923 eclipse is examined in the USA section. It emanated from the northern islands of Japan 9 days after the worst natural disaster in Japanese history, the 1923 Tokyo earthquake and fire.

Partial eclipses occur on Mar 5 1924, July 3 1924 and August 30 1924

Roaring Twenties: Three Eclipses of 1925 to 1927

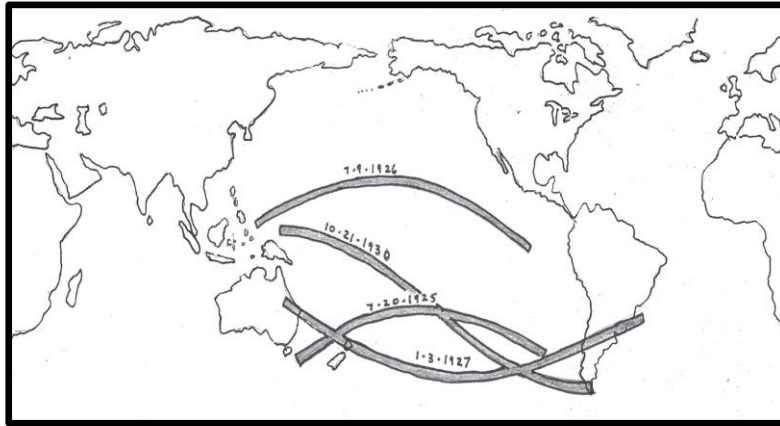


1925 to 1927 Roaring Twenties: Bob Dylan, Beatles and Martin Luther King Premonitions **Three personality associations in three total eclipses in three years.**

1925 Jan 24 Total USA to England Roaring 20's -Saros 120 At the mid-point of the roaring twenties, a total solar eclipse across the northern USA brings a total solar eclipse to New York City for the first time since 1478. NYC is becoming the new epicenter of western civilization and empire ("empire state"). New York was home to the financial and cultural centers of the nation--Wall Street, Broadway, Vaudeville, Tin Pan Alley. The city was treated to rare clear skies and the eclipse was widely observed--eclipse path crosses the ocean to extreme northern Britain. Path goes from Hibbing and Duluth Minnesota (birthplace and hometown of Bob Dylan about 16 years later) and crosses his adult homes of Woodstock and New York City. 36 years to the day before he arrived by bus to NYC from Minnesota on Jan 24 1961. Nearly a dozen important US figures are born in the months around this eclipse.

1926 Jan 14 Total Central Africa to Indonesia -Saros 130 Three years essentially to the day before Martin Luther King is born on Jan 15 1929. 36 years before the pinnacle of his fame.

1927 Jun 29 Total Liverpool to USA -Saros 145 At the height of the British Empire, The United Kingdom is bisected by an early morning total solar eclipse, including totality at sunrise in Liverpool 16 years before the last Beatle George is born there. All four Beatles were born in Liverpool. Eclipse occurs 36 years before their fame exploded in 1963/1964. Path travels across Scandinavia, extreme north latitudes of Russia before ending in the Aleutian islands of the USA...see Focus spotlight in personality sections...Saros 145, which is one of the greatest of the Saros, returning for USA atom bomb 1945, Great 1999 eclipse and USA 2017.



1925 to 1930 Pacific Cluster (above)

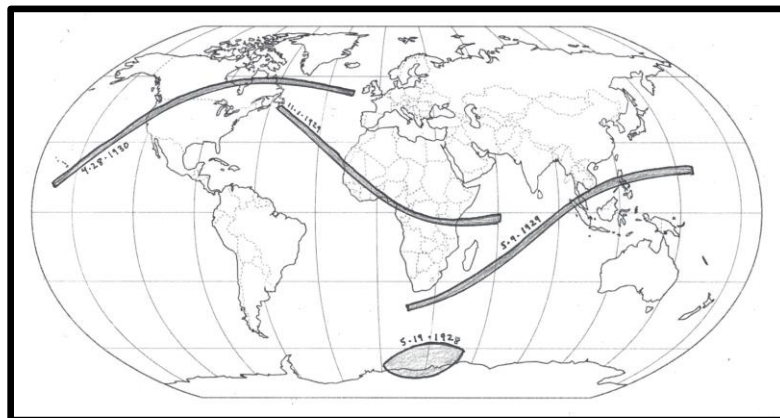
1925 Jul 20 Ring of Fire (Saros 125)

1926 Jul 9 Ring of Fire (Saros 135)

1927 Jan 3 Ring of Fire (Saros 140)

1930 Oct 21 Total (Saros 142)

A clump of eclipses cross the Pacific beginning at generally similar longitudes between 1925 and 1930.



1928 to 1930 Total Triad and Stock Market Crash Ring of Fire (above)

1928 May 19 Total Antarctica (Saros 117)

1929 May 9 Total Indian Ocean to Indonesia (Saros 127)

1930 Apr 28 Hybrid San Francisco (Saros 137)

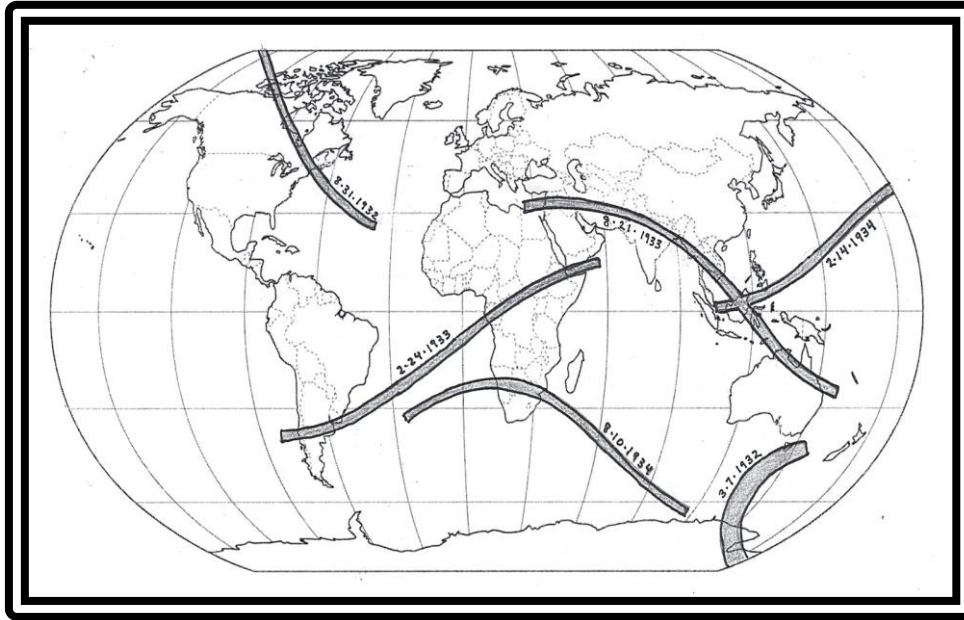
1929 Nov 2 Ring of Fire Stock Market (Saros 132)

A Triad of two totals and a hybrid precede the **1929 Stock Market Eclipse**, which occurred three days after Crash of Oct 29 1929, an annular eclipse beginning east of North America to traverse Africa, with maximum eclipse on the Slave Coast. Annularity in African cities of Lomé, Kinshasa and Dar es Salaam. The **1930 Apr 28 San Francisco Hybrid** featured totality of less than a kilometer wide and was the only totality in San Francisco in centuries, 36 years and two days before Anton Lavey founded Church of Satan in San Francisco on Apr 30 1966.

Eclipses of 1925, 1926, 1927, 1930 all have interesting associations 36 years later.

partials occur on 12-24-1927, 6-17-1928, 11-12-1928

1932 to 1934 : End of the Temple Destruction Metonic



1932 Mar 7 Ring of Fire Antarctica to Tasmania -Saros 119

1932 Aug 31 Total New England Total -Saros 124 Looked at in USA section. The end of the USA 1918 to 1932 Eclipse Swarm. Two months before the Presidential election that brought Franklin Delano Roosevelt to power, 96 % at his home of Hyde Park, New York. Six weeks after lowest point of stock market in the Great Depression, Eclipse crosses Canada (totality in Montreal) and New England. Totality at Bush center of Kennebunkport and Cape Cod. 99.9% at Kennedy home.

1933 Feb 24 Ring of Fire South America to Arabia -Saros 129

1933 Aug 21 Ring of Fire Jerusalem -Saros 134 Looked at closer in Mideast section, As Nazis seize control in Germany, at the peak of a worldwide depression, a Ring of Fire across the Mideast- Palestine, Jordan, Iraq, Iran and Afghanistan-- then South Asia, India and Southeast Asia, total annularity in Jerusalem, Baghdad (Babylon), Amman, Gaza, Alexandria (Egypt) ---path also cuts through Bangladesh, Thailand, Indonesia before finally ending at the east coast of Australia.

1934 Feb 14 Total Valentine's Day in Borneo -Saros 139

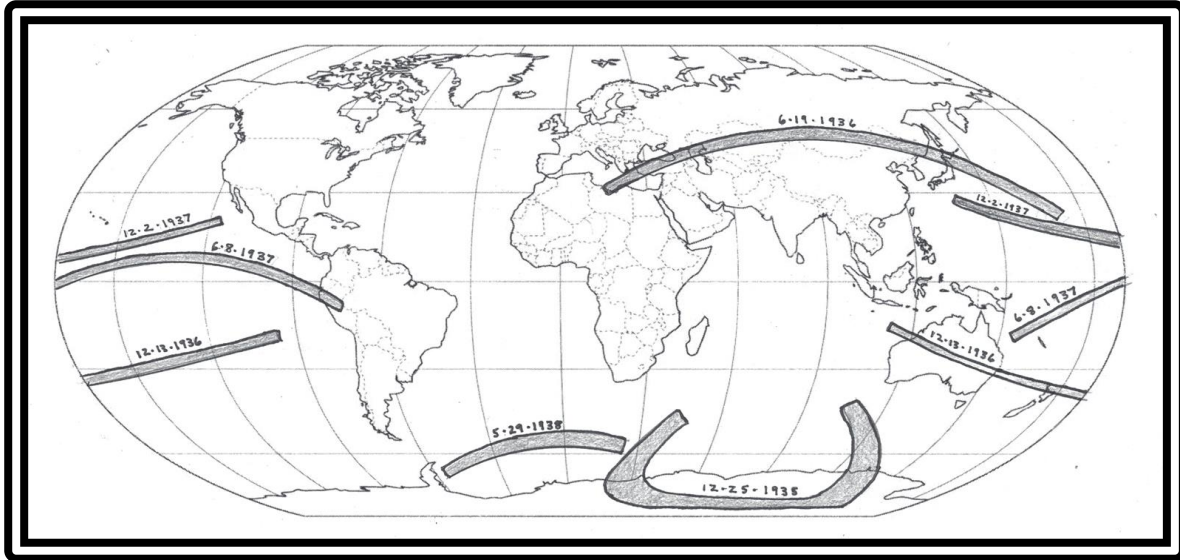
1934 Aug 10 Ring of Fire End of Temple Destruction Metonic- Saros 144)

In 1933 two Ring of Fires frame Arabia. The year western oil interests first arrived in Saudi Arabia. It is somewhat rare to have the only complete eclipses in a year both be rings of fires. 1933 was the year Germany fully went from democracy to dictatorship--the Reichstag fire, the first anti-Jewish laws, the purge of the opposition, the construction of Dachau. August 21 1933, the day of the eclipse, was the start of the 18th Zionist Congress in Prague. In the Hebrew calendar it was 1st day of month of Elul.

In August 1933 in Iraq, thousands of Assyrian Christians were killed in the Simele massacre Also, the "great white spot " of Saturn was seen by astronomers for the first time in 30 years in early August, and stayed for 4 weeks, allowing for the measurement of Saturn's rotation. Mahatma Gandhi was arrested by the British in India on eclipse days of August 21 and began a hunger strike. Palestinian leader Yasser Arafat was born 3 days after Aug 21 eclipse in Cairo on August 24 1933

partials occur on 4-18-1931, 9-12-1931, and 10-11-1931

Begin Christmas Metonic 1935 to 1938



Christmas Metonic Begins with two Triads 1935 to 1938

The Christmas Metonic extends from Dec 25 1935 to Dec 25 1954. These are the first Christmas Eclipses since 1582 (the “Christmas Island” and 2 years of Christmas eclipses in a row.

Total Triads (each one lunar year apart):

1936 Jun 19 Total World War Premonition eclipse- Saros 126

1937 Jun 8 Total Pacific to Peru -Saros 136

1938 May 29 Total JFK 21st Birthday/ Endurance /Antarctic Ocean -Saros 146

Ring of Fire Triads (each one lunar year apart):

1935 Dec 25 Ring of Fire Christmas in Antarctica -Saros 121

1936 Dec 13 Ring of Fire Australia/ New Zealand -Saros 131

1937 Dec 2 Ring of Fire Open Pacific Ocean -Saros 141

1936 Jun 19 World War Premonition: Begins off Libya, crosses Asia to pass over Japan. Path across great civilizations in days leading up to WWII. The path crosses Greece with totality in Athens (a few weeks before the Metaxas coup), eastern Turkey, across USSR (at beginning of Stalin's “Great Purge”) and into Japan, a year before beginning of the second China/Japanese War (July 1937)

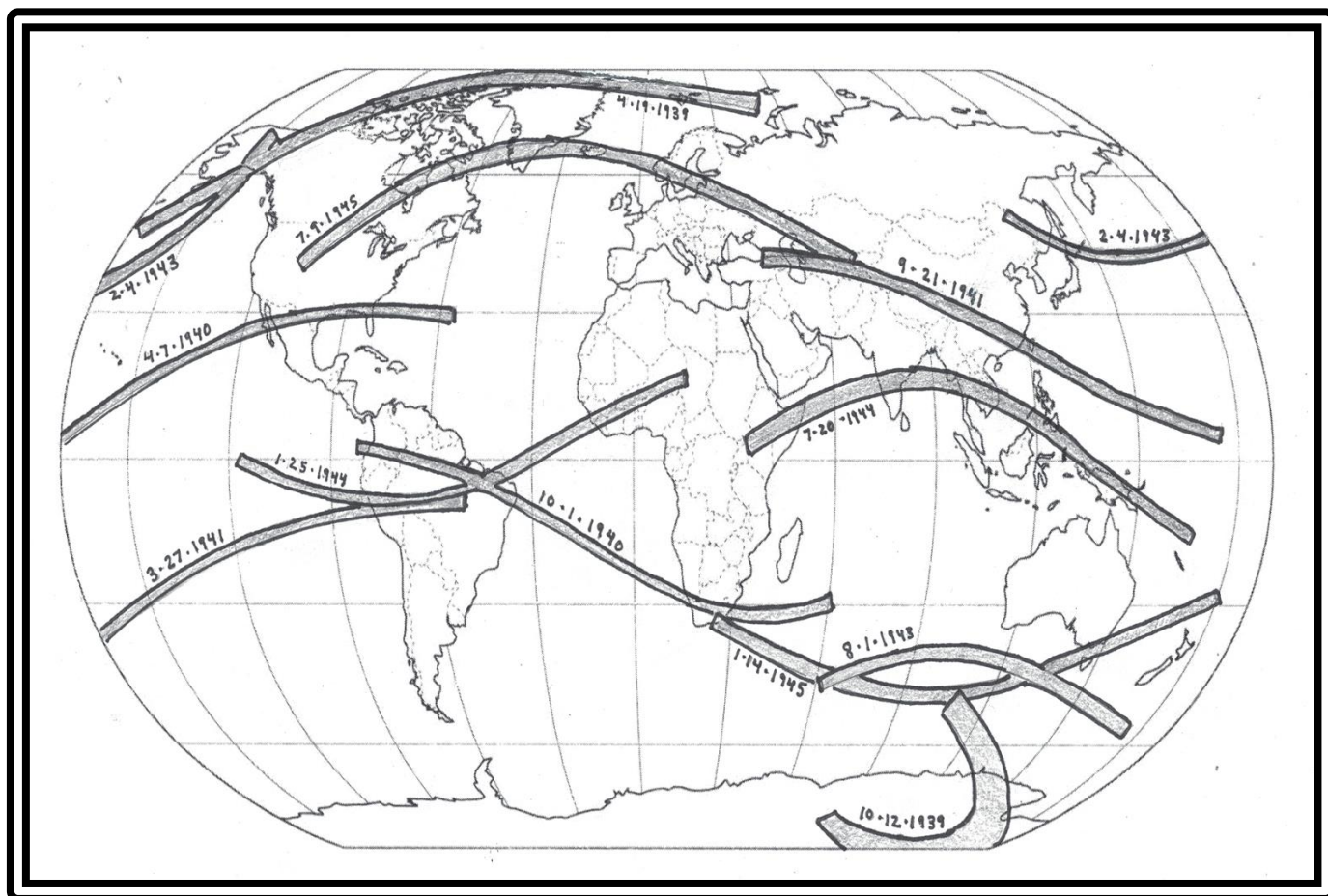
1935 Dec 25 Christmas in Antarctica: One of only two true Christmas solar eclipses in centuries.

1936 Dec 13 Australia/ New Zealand eclipse occurs four days before birth of Pope Francis and three days before birth of this author's mother. Eclipse occurs over northern New Zealand where author would be conceived 30 years later.

1938 May 29 Endurance /John F. Kennedy's 21st birthday, a total solar eclipse covers the site of Endurance Antarctic Expedition on JFK's birthday, 22 years almost exactly after Ernest Shackleton's daring May 1916 500 mile rowboat ocean crossing of the Ocean and desperate mountaineering traverse of South Georgia Island, one of the greatest survival stories in the history of humanity. Totality on South Georgia and 93% on Elephant Island, where his crew huddled for months.

Partials occur on 1-5-1935, 2-3-1935, 6-30-1935, 7-30-1935, 11-21-1938

World War Two Eclipses 1939 to 1945



World War Two Eclipses 1939 to 1945

Twelve complete solar eclipses occurred in the seven years of World War Two. It is estimated that nearly 60 million people died in the war.

1939 Apr 19 Ring of Fire Hitler Birthday Metonic Northern Latitudes -Saros 118

1939 Oct 12 Total Columbus Day first weeks of WWII Antarctica -Saros 123

1940 Apr 7 Ring of Fire USA Deep South -Saros 128

1940 Oct 1 Total South America to Africa -Saros 133

1941 Mar 27 Ring of Fire Pacific to South America -Saros 138

1941 Sep 21 Total Black Sea to China Fall Equinox -Saros 143

1943 Feb 4 Total Japan to Alaska -Saros 120

1943 Aug 1 Ring of Fire South Indian Ocean -Saros 125

1944 Jan 25 Total South America to Africa -Saros 130

1944 Jul 20 Ring of Fire Africa, India, Southeast Asia -Saros 135

1945 Jan 14 Ring of Fire South Africa to Australia - Saros 140

1945 Jul 9 Total Atom Bomb Eclipse USA to USSR -Saros 145

1939 Apr 19 Ring of Fire Hitler Birthday/Darwin Death Day Metonic (Saros 118) in the hours before Adolf Hitler's 50th birthday on Apr 20 ,on 57th anniversary of Darwin's death (57 years is a complete Metonic triad 19x3); 135 days before invasion of Poland. Annularity in Anchorage, Alaska. Berlin 30% coverage. Last complete eclipse for Saros Cycle 118 after nearly 1,000 years of complete eclipses.

1940 Apr 7 Ring of Fire USA Deep South (Saros 128) As war rages in Europe, a Ring of Fire crosses northern Mexico, Texas (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. Metonic similarity to upcoming Apr 8 2024 North American Eclipse.

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

1943 Feb 4 Total Japan to Alaska (Saros 120) Warring nations of Japan and USA are linked by a total solar eclipse. Totality in Sapporo Japan and Anchorage Alaska (which has second eclipse in 4 years). Path begins in eastern China and USSR. Eclipse 5 days before Japanese resistance ends at Guadalcanal. Saros 120, which returns with the Microsoft/Mount Saint Helens USA eclipse in 1979 Feb 26.

1944 Jan 25 Total South America to Africa (Saros 130) Peru and Brazil then across ocean to Modern day Sierra Leone and Guinea-including capital of Conakry.

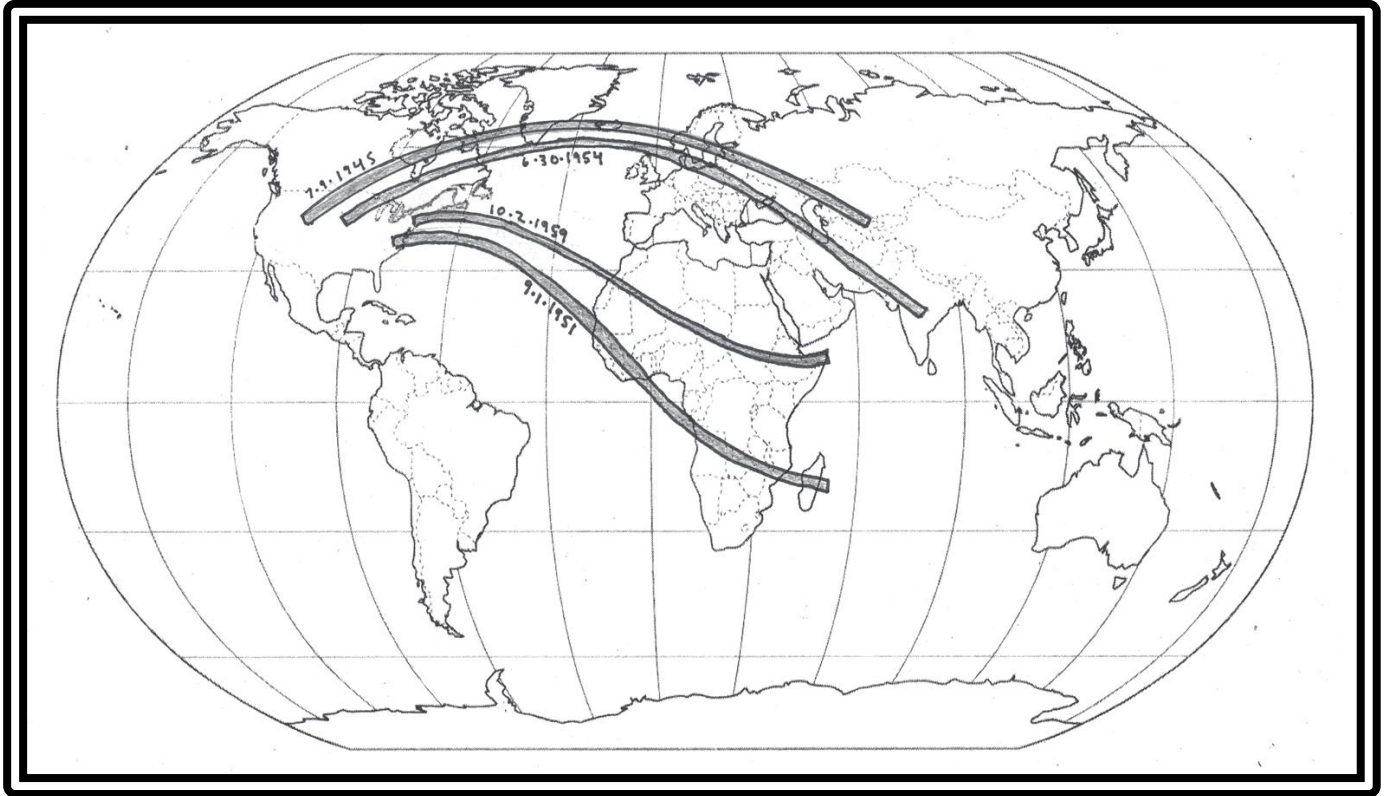
1944 Jul 20 Ring of Fire Africa, India, Southeast Asia (Saros 135) Path crosses Horn of Africa and bisects India. Annularity in Brahmapur ("The abode of Brahma, the Creator"), also in Burma as war raged there. Path goes over Cambodia, Laos and Vietnam, 81% in Bangkok, Thailand. First eclipse in Southeast Asia Eclipse Swarm. Path over fighting in Philippines, ends over the Solomon Islands of New Guinea, site of sinking of JFK's PT-109 boat exactly one lunar year before, the night of August 2 1943. The next Jul 20 Metonic eclipse occurs 19 years later, leaves Japan at sunrise and reaches the USA four months before JFK's murder on Jul 20 1963.

1945 Jul 9 Total Atom Bomb Eclipse USA to USSR (Saros 145) This total eclipse occurs the very day White Sand s Missile Range in New Mexico is established, determining where one week later, on July 16th, the world's first atomic bomb would be detonated. The bomb would be first used on humanity beginning 27 days later in Hiroshima and then Nagasaki Japan. Total solar eclipse travels from the USA to USSR. Path of Totality in Idaho and Montana (Butte), Canada, Greenland, Scandinavia and then bisecting Russia ---98% totality in St. Petersburg and 95 % in Moscow. Path ends at western border of China. 60% coverage at nuclear test site of White Sands. 70% at Los Alamos Laboratory, New Mexico.

Partials occur on 3-16-1942, 8-12-1942, 9-10-1942

World War Two from 1939 to 1945 is isolated in time, eclipse wise. There are no complete eclipses from May 1938 until Hitler Birthday in Apr 1939. After the 1945 A-Bomb Eclipse, nearly two years elapse until another complete eclipse, May 20 1947, the 441st anniversary of the death of Columbus.

1945 to 1959 USA Emanations—Special Focus map



1945 to 1959 USA Emanations

A unique moment of eclipse History. In the space of 15 years, four complete solar eclipses originate in the USA and head out into the world.

1945 Jul 9 Total Atom Bomb Eclipse USA to USSR -Saros 145

1951 Sep 1 Ring of Fire Jamestown to Angola -Saros 134

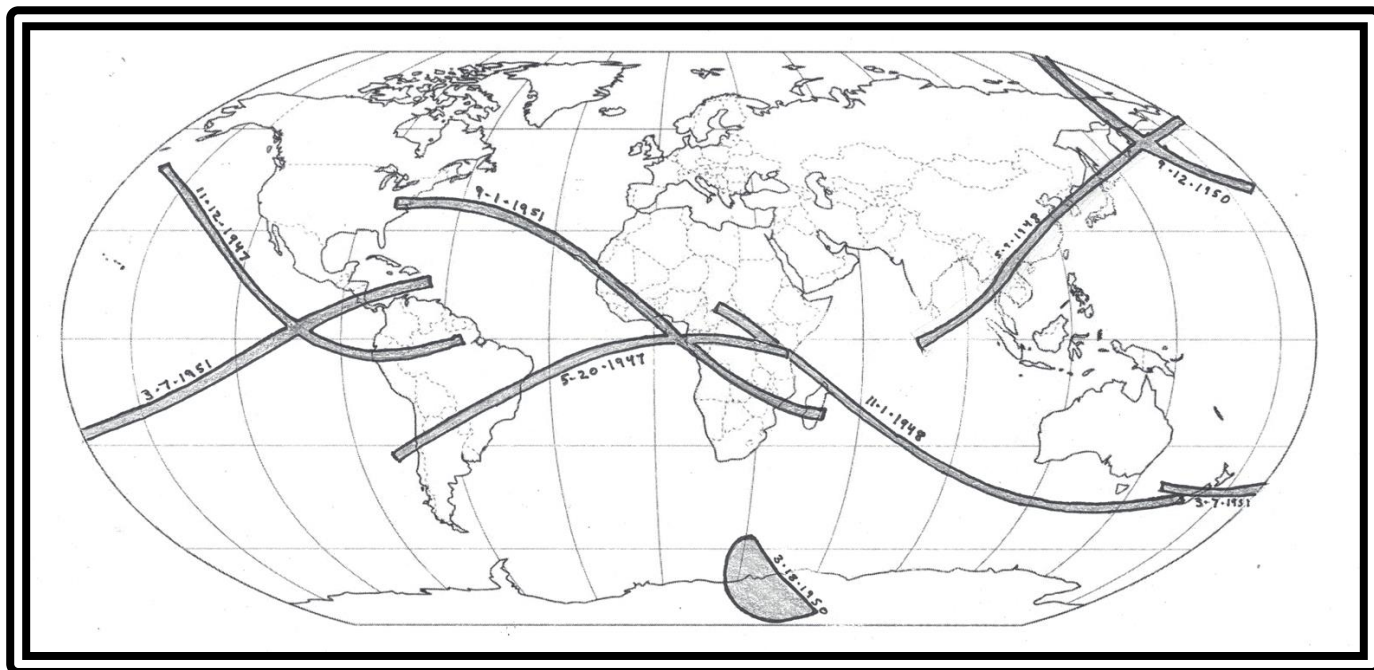
1954 Jun 30 Total USA to Iran Shahrud Tav -Saros 126

1959 Oct 2 Total JFK Boston Single City across Africa -Saros 143

A focus on a unique moment of eclipse History.

In the space of 15 years, four complete solar eclipses originate in the USA and head out into the world.

1947 to 1951 All Complete Eclipses



1947 to 1951

1947 May 20 Total Columbus Death Day South America to Africa -Saros 127

1947 Nov 12 Ring of Fire Pacific to South America -Saros 132

1948 May 9 Ring of Fire-almost Total Korea Divided/ Southeast Asia -Saros 137

1948 Nov 1 Total Central Africa to New Zealand -Saros 142

1950 Mar 18 Ring of Fire Antarctica -Saros 119

1950 Sep 12 Total Northeast USSR - Saros 124

1951 Mar 7 Ring of Fire New Zealand to American Isthmus -Saros 129

1951 Sep 1 Ring of Fire Jamestown USA single city to Africa -Saros 134

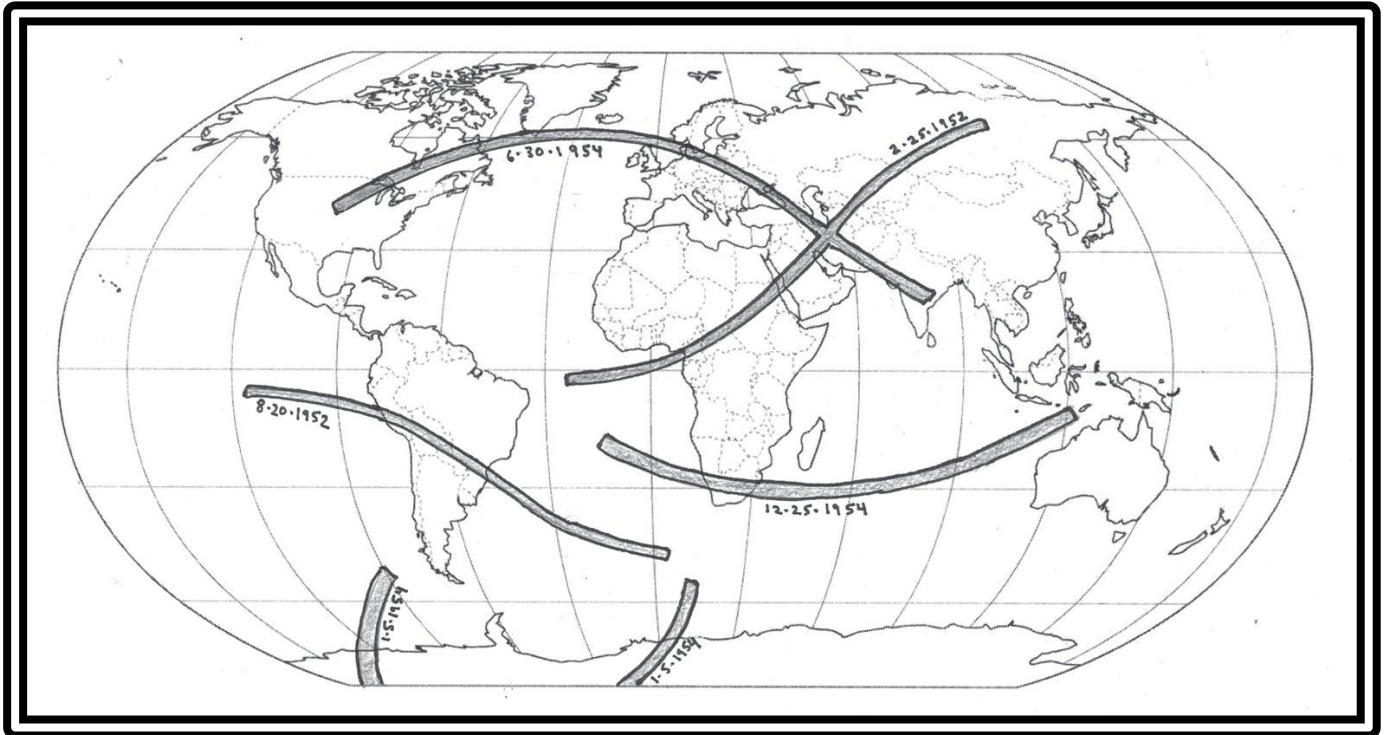
1947 May 20 Columbus Death Day Eclipse (Saros 127)--South America to Africa on 441st anniversary of Columbus death in 1506. Begins just west of Chile, totality in Santiago and Salvador, Brazil. Crosses Atlantic into Africa, dividing metropolitan Kampala, Uganda. Stops just after Nairobi, Kenya.

1948 May 9 Korea Divided-Southeast Asia (Saros 137) Sections of this eclipse reached as much as 99.999% total, one of the closest ring of fires to totality ever. Annularity in Bangkok, Thailand (first of four complete eclipses in ten years). Cuts Vietnam and Laos in half and crosses China. Straddles North and South Korea close to the 38th Parallel. The North invades the South 2 years later in 1950. Vietnam, also embroiled in war with its colonizer France, would be officially divided into two nations 6 years later. Eclipse eventually ends in Pacific after crossing Aleutian Islands of USA.

1951 Sep 1 Jamestown USA to Africa (Saros 134) Ring of Fire eclipse 332 years after the first slaves were brought to colonial Jamestown on August 20 1619. Path begins at sunrise in Virginia at Jamestown, crosses Atlantic to the Slave Coast, including Angola, which was the source of the 20 Africans brought on the first ship. The eclipse crosses Africa and ends in Madagascar at sunset almost precisely on capital of Antananarivo.

partials on 1-3-1946, 5-30-1946, 6-29-1946, 11-23-1946, 4-28-1949, 10-21-1949

1952 to 1954 Shahrud Cross/ End of Christmas Metonic



1952 to 1954 Shahrud Cross / End of Christmas Metonic

1952 Feb 25 Total Africa/Mideast/ Iran/ USSR -Saros 139

1952 Aug 20 Ring of Fire South America -Saros 144

1954 Jan 5 Ring of Fire Antarctica- Saros 121

1954 Jun 30 Total USA to Iran and India -Saros 126

1954 Dec 25 Ring of Fire Christmas in South Africa -Saros 131

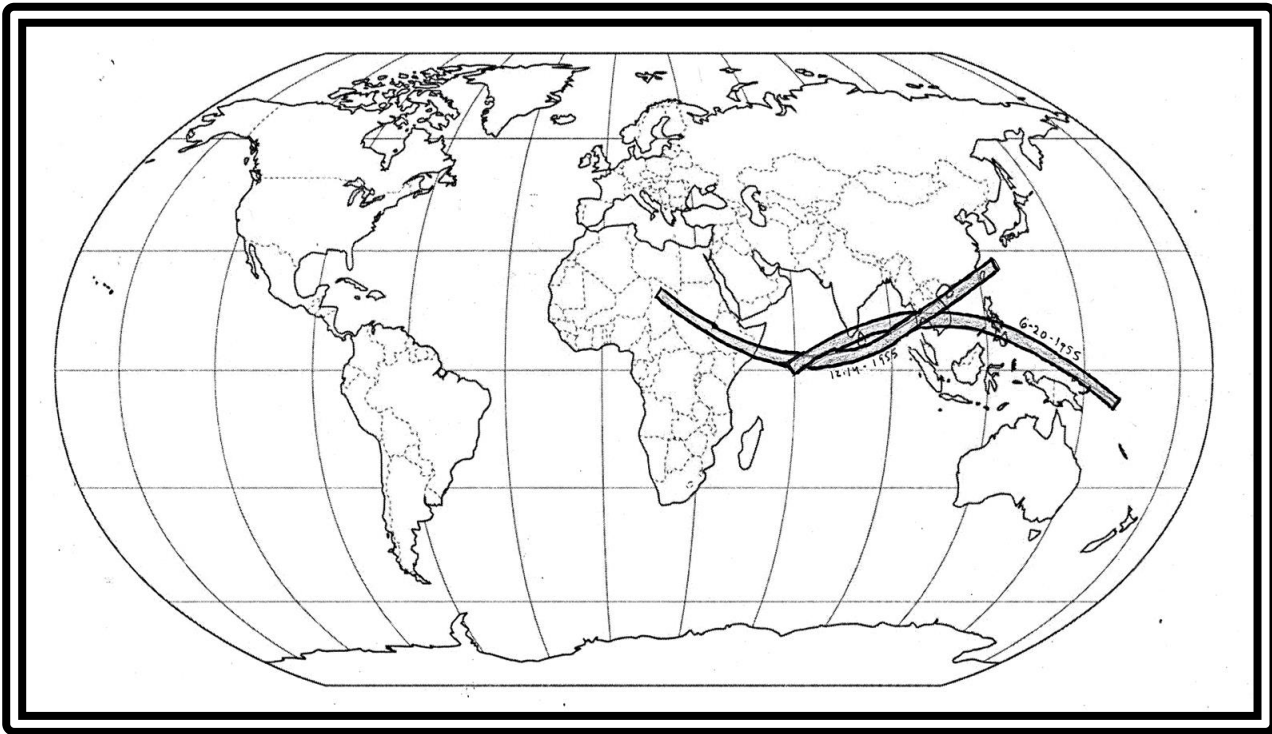
1952 Feb 25 Africa/Mideast/ Iran/ USSR Total (Saros 139) Total eclipse traverses Africa (Totality in Khartoum, Sudan), then crosses Arabia (totality in Jeddah), crosses Iraq near Basra, and then Iran (totality in Shahrud) before it ends in Russia. 1952 saw upheaval in Iran, leading to the US backed coup of August 1953 that installed the Shah. Saros Cycle 139 returns for USA 2024 eclipse.

1954 Jun 30 USA to Iran and India (Saros 126) This next total eclipse after 1952 starts in USA and ends in Iran, intersecting the 1952 path over city of Shahrud in the first year after the Shah was re-installed by a US backed coup. The eclipse path starts in Nebraska, brings totality in Saint Paul, bisects Canada, crosses the Atlantic, dives through Scandinavia into Poland, Eastern USSR (totality in Kiev), Iran. Path then over Afghanistan, Pakistan (totality in Quetta) before ending in India. The western backed coup of August 1953 installed Shah Reza Pahlavi over the elected government of Iran. The coup lies between successive total eclipses with intersection over city of Shahrud (literally "City of the Shah").

12-25-1954 Christmas in South Africa (Saros 131) One of two Christmas eclipses in 20th century, first since 1600's and the last true Christmas eclipse over q populated region for next 500 years.

partials on 2-14-1953, 7-11-1953, 8-9-1953

1955 Southeast Asia/ Bangkok/Vietnam War Cross

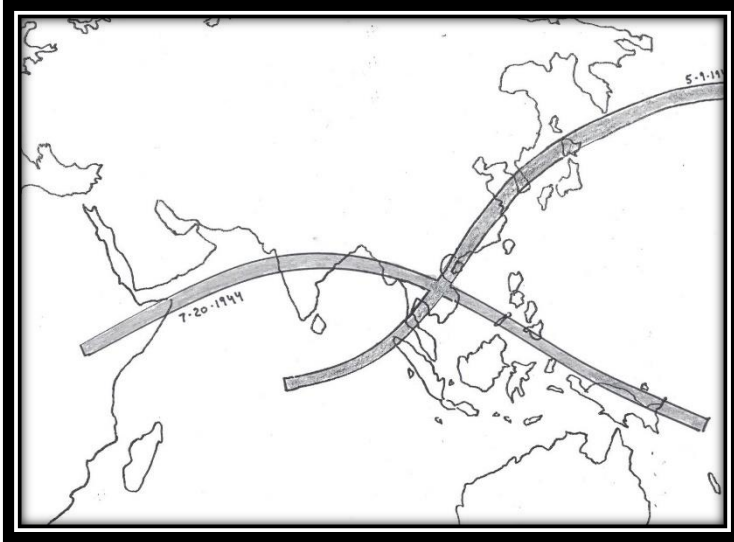


1955 Southeast Asia/Bangkok/ Vietnam War Cross (Vietnam war “officially begins” Nov 1 1955)

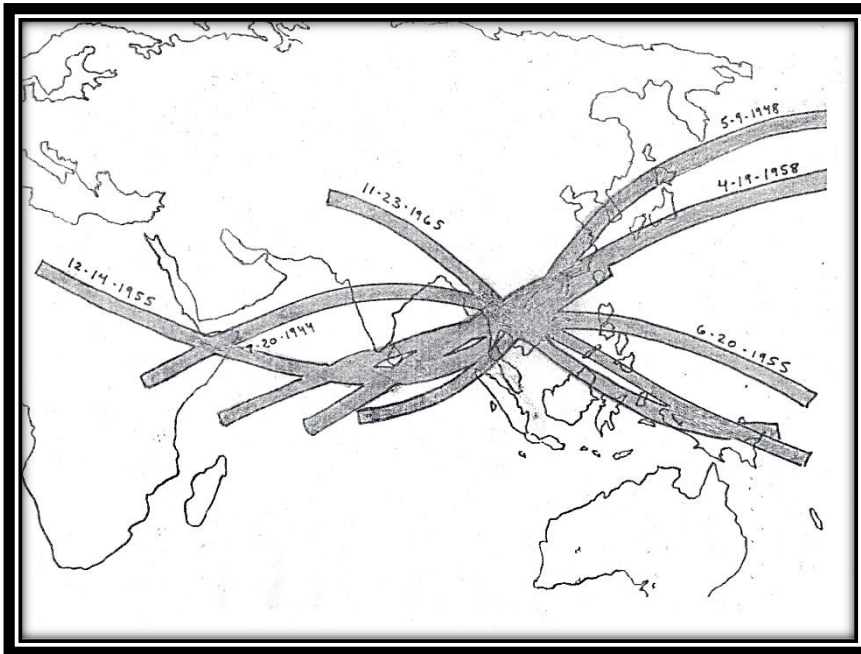
The eclipse cross which occurs over Vietnam in 1955 is composed of the longest total eclipse and longest ring of fire eclipse of the last thousand years.

1955 Jun 20 Total Summer Solstice Eve Southeast Asia (Saros 136) The longest duration total solar eclipse (at 7 minutes 7.74 seconds) since the 11th Century and longest until the 22nd Century. It's also the longest eclipse of Saros 136. Occurs day before Summer Solstice. Total solar eclipse begins over Indian Ocean and covers Sri Lanka before giving Bangkok their second eclipse in 7 years. It shadows ancient mystic metropolis of Angkor Wat in Cambodia and divides Vietnam 3 weeks after pullout of last French forces. Eclipse goes on to give totality to Manila (their last total eclipse until 2100. Totality over Mount Pinatubo almost exactly 36 years before its historic eruption on June 15, 1991. Saros 136 brings the upcoming Aug 2nd 2027 Valley of the Kings Eclipse.

1955 Dec 14 Ring of Fire Africa to Taiwan/ Southeast Asia (Saros 141) With a maximum annularity duration of 12 minutes and 9.17 seconds, it's the greatest duration ring of fire of the second millennium, and the longest duration in the life of Saros 141. It is quite literally one of the longest eclipses known to have happened on earth. Taking an opposite convex path 177 days after the summer solstice eclipse of 1955 Jun 20. The path begins in North Africa, dives just south of Sri Lanka and comes ashore incredibly at Bangkok, giving the city its second solar eclipse in less than 6 months-- an event with a less than one in 80,000 chance of occurring. It is also Bangkok's 3rd eclipse in 7 years (less than one in 2 million chance). Path continues on over Vietnam, Cambodia and Laos, bisecting those nations again for the third time in seven years. Also crosses Hong Kong and Taiwan. The 156th year anniversary of death of George Washington in 1799.



**At Left is
First Southeast Asia Cross
1944 and 1948**



**1944 to 1965 Full Southeast
Asia Eclipse Swarm
Southeast Asia 21 Year Eclipse
Swarm 1944 to 1965**

Six solar eclipses intersect over Southeast Asia in 21 years, in probably the greatest known intersecting eclipse swarm in history. Meanwhile, in that region, a brutal cycle of violence is fueled by imperial struggles between Communist and Capitalist powers. War in Korea, Vietnam, Laos, Burma, Cambodia. Between 1945 and 1980, perhaps 15 to 20 million are murdered across the region.

- 1944 Jul 20 Africa to Pacific Ring of Fire (Saros 135)**
- 1948 May 9 Korea Divided Ring of Fire (Saros 137)**
- 1955 Jun 20 Vietnam/ Bangkok Total (Saros 136)**
- 1955 Dec 14 Vietnam/ Bangkok Ring of Fire (Saros 141)**
- 1958 Apr 19 Vietnam/ Bangkok Ring of Fire Two (Saros 128)**
- 1965 Nov 22/23 Vietnam- JFK Death Metonic and PT 109 (Saros 132)**