

Chapter 3

USA Complete Eclipses from 1492 to 2012

The first gathering of all USA complete eclipses described and illustrated in this fashion.

We search for similar overland Hepton crosses as they appear in our current history (2017 to 2024) to determine if our current cross is peculiar. I assert the Hepton Cycle is the maximum Expression of eclipse cycles. It is explored in the Hepton Section of this book. I also assert that the two Hepton Crosses (USA and Mideast between 2017 and 2034) are the maximum modern expression of the Hepton.

In this section, you'll find only two Hepton Crosses in the 500-year time frame, one in the 1500's and one in the 1700's. Neither of them is composed of true totals. Each has one hybrid.

The maps in this chapter only depict the USA. Obviously, the eclipses extend further. I sometimes describe where the extended path reaches, but not always.

You will see clumps of eclipses, what I call swarms, often followed by long periods of inactivity. These swarms are especially pronounced around the most interesting times in USA history.

Certain Saros Personalities such as 120 and 145 return often, playing important roles.

You will notice an unusual cycle called the 300/44 pairing which is a 300 year minus 44-day period which can (but not always) bring similar eclipses to the same general geographic regions.

Certain places (i.e., cities) receive more eclipses than others. This may have significance to the idea of certain geographic or spiritual energy "hot spots". I will give a round-up of cities in a moment.

I highlight certain anniversaries if I feel they have significance, both solar year anniversaries and eclipse year anniversaries. When an anniversary is highlighted, it signifies a true re-alignment of earth, sun and moon, and not just a random date.

I do not include partial eclipses.

These maps are artistic hand-drawn representations of the eclipse paths based on several sources.

They are not perfectly precise but very close I believe. Any locations mentioned are all verified, however, and are based on NASA alignments and common knowledge history. I highly suggest learning about the history of the USA if you haven't already.

History In Eclipses; A Brief Perspective

I will suggest certain possibilities in eclipse history.

- Imperial energies appear to be highlighted. The deeds and movements of empires appear in the paths, appearing to build bridges between geographic imperial powers. The pace of peculiarity seems to pick up towards the later history.
- Anniversaries and unusual dates can appear. Extremely important events are often marked in advance in unusual and profound ways.
- Certain maximum expression personalities and times are reflected.
- There is an underlying story of numbers, mathematics and calendars that is clearly present, yet again, difficult to fully pin down.
- Eclipses are the only way for hieroglyphs to be written on earth. War, conquest and slavery are one of the main subjects. Maximum expression of story and empire seems the overall theme.

America is very special. We are clearly a maximum expression, not only of empire but of music and a uniquely creative spirit, seen in both its original inhabitants and in its settlers.

What we know as the USA only began to take shape in the early 1600's. The Mayflower in the north in 1620 and Jamestown to the South in 1607. The first slaves arrived there in 1619. Manhattan Island is settled in 1624. Energies struggled in the USA, mirrored in a flesh and blood battle for the new world. Exchanges occurred between peoples and cultures and faiths.

List of selected US Cities and how many eclipses since 1600, including 2023 and 2024.

Albuquerque: 3 eclipses- of which 1 is total eclipse.

Anchorage: 2 eclipses (1 total)

Atlanta: 8 eclipses (2 total)

Austin: 7 eclipses (1 total)

Boston: 5 eclipses (2 total)

Charleston: 5 eclipses- 3 total

Chicago: 3 eclipses (1 total)

Cincinnati: 1 eclipse (0 total)

Dallas: 5 eclipses (3 total)

Denver: 3 eclipse (3 total)

Houston: 5 eclipse (0 total)

Indianapolis: 2 eclipses (1 total)

Los Angeles: 6 eclipses (3 total)

Minneapolis: 1 eclipse (1 total)

New Orleans: 7 eclipses (3 total)

New York City: 3 eclipses (1 total)

Oklahoma City: 2 eclipses (2 total)

Salem: 2 eclipses (2 total)

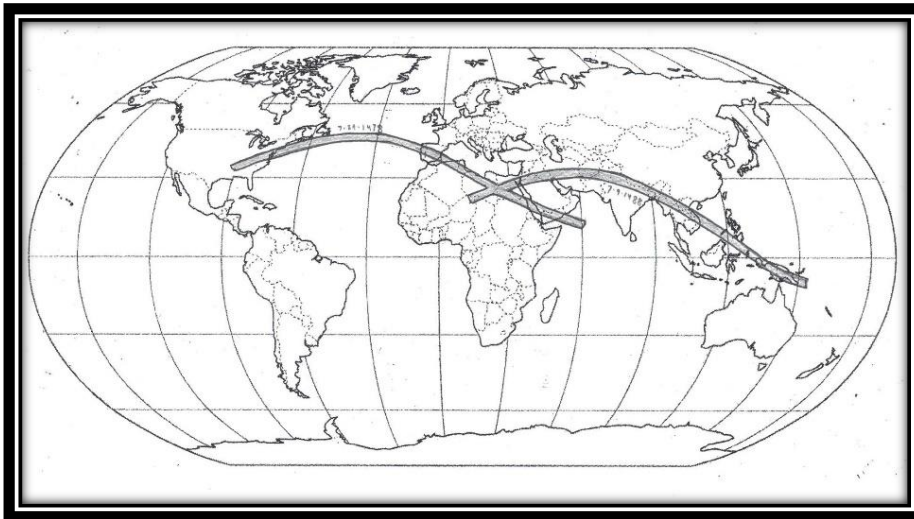
San Antonio: 8 eclipses (1 total)

San Francisco: 1 eclipse (0 total)

Washington DC: 5 eclipses (0 total)

Interesting eclipses Just Before Columbus Voyage

1478 July 29 Total



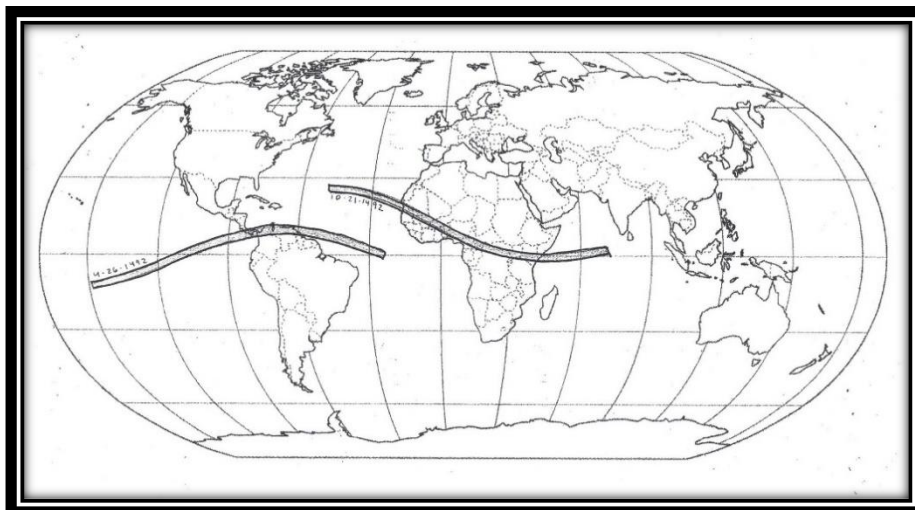
(Saros 127)

Very close to exactly 14 years before Columbus set sail from Spain, a total eclipse from America to Spain to Egypt. This is the last total eclipse over what will be Washington DC. Still has not seen totality again. Also future New York City, Cape Cod, Memphis. Totality in Spain, Egypt and Arabia.

1488 July 9 Total Egypt/ Sinai/ Arabia/ Babylon/ Persia/Himalaya/ India/ Southeast Asia (Saros 118)

Geographic power spots eclipsed 4 years before Columbus.

1488 July 9 Total Egypt/



1492. The Americas, the Atlantic, and Africa

1492 Apr 26 Ring of Fire Pan- American Isthmus

(Saros 120) The Saros Cycle that perhaps most highlights the American Eclipse experience (120) has its first complete eclipse. The isthmus of the Americas is covered 94 days before Columbus sets sail.

1492 Oct 21 Ring of Fire Africa (Saros 125) Nine days after Columbus touches ground in North America, Africa has a ring of fire across the heart of the continent.

Simply put, the three continents most affected by the Imperial expansion of 1492 all experience eclipse in 1492, and the pattern is simple and symmetrical.

I. 1496 to 1506- Mayan Apocalypse to Columbus Death



1496 Aug 8 Mayan Apocalypse Total Eclipse- (Saros 127) Path from extreme Southern California across Aztec and Mayan empires. For the star-gazing astronomers of the Maya, this solar eclipse foretold doom from the recently arrived Spanish Conquistadors. Within a generation of the eclipse, perhaps 3/4 of the natives succumbed to war and pestilence.

Saros 127: Saros 127's last eclipse prior to this -featured on last page- went from the USA to Spain to Arabia through Egypt. 1496 is the last appearance of Saros 127 in the USA. Saros 127 is the last eclipse of the current Monday Hepton Cycle, bisecting Australia and NZ July 13 2037.

300/44 Relation: The eclipse is in a 300/44 pairing with the July 4 1796 (20th anniversary of founding of USA) Pacific eclipse, which was the only solar eclipse to occur on July 4th in seven centuries.

1503 Mar 27- Total Eclipse- (Saros 121) Path travels across northern Great Plains

1506 Jul 20-Total Eclipse- (Saros 118) Two months after death of Columbus on May 20 1506. Twenty years before first African Slaves brought to the Americas by Spanish in 1526. Exactly 463 years before moon landing of 7-20-1969. Through Texas across what becomes Jamestown, Virginia.

Saros 118 : Saros 118 will appear in many interesting eclipses, including 1777 USA Revolution Eclipse, 1831 Lincoln Birthday/ Nat Turner Ring of Fire and Hitler Birthday/Death Day 1939 and 1957.

Summary: Total eclipses outlining rough border of the USA. 14 years before next USA eclipse.



II—The Only Two USA Eclipses in a 50-year span happen in 1520 and 1531

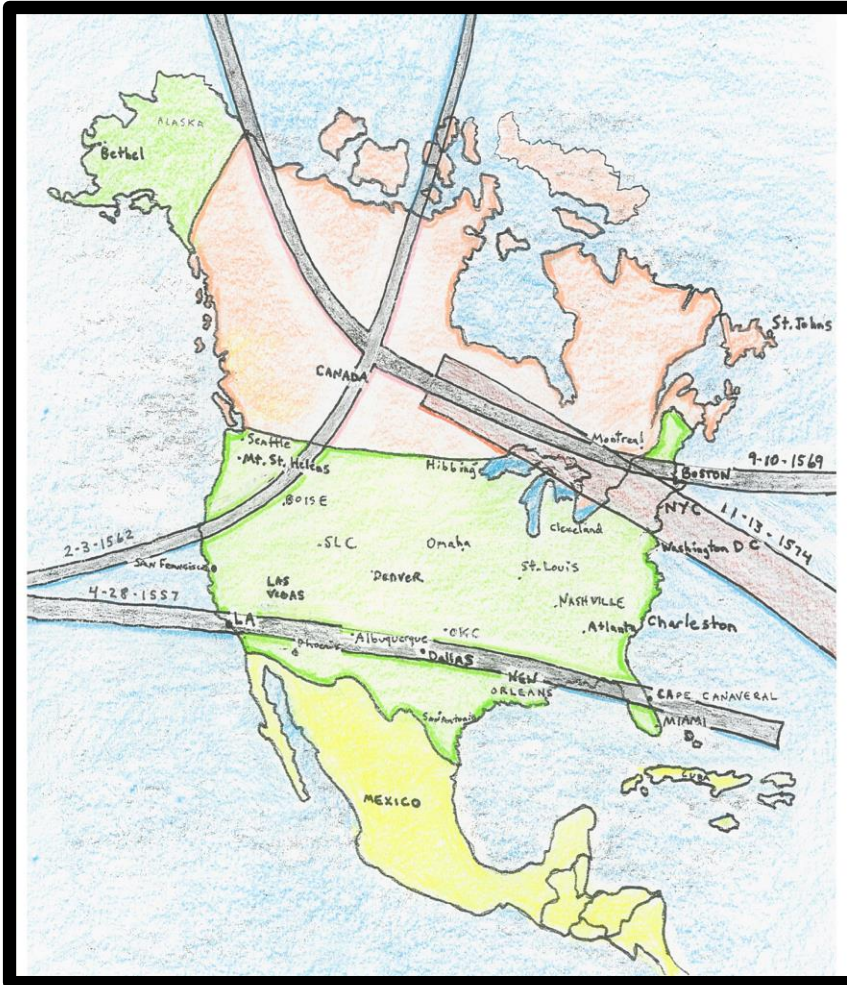
1520 Oct 11 Ring of Fire (Saros 116) ---On the eve of the 28th anniversary of Columbus landing in the New World. Path crosses extreme Northeast, including what becomes New York and Boston.

Saros 116: Saros 116 reappears in Lincoln Birthyear/death day eclipse of 4-14-1809.

1531 March 18 Total Eclipse (Saros 112)—Only US eclipse near Spring Equinox in survey. A razor thin hybrid with only seconds of totality. Crosses Little Egypt Illinois and directly over future Oklahoma City.

Summary: These are the only solar eclipses between 1506 and 1557. It was 14 years without an eclipse up until 1520 and then a full 26-year span after 1531 before next eclipse in 1557. In 1526, the first African slaves are brought to the western hemisphere by the Spanish to Brazil. The first 100 brought to North America rebelled and disappeared among the natives. Millions of natives die during this time from war and disease. No overland cross in eclipses.

III. 1557 to 1574 USA Geographic Power Spots LA, NYC, Dallas Etc...



1557 April 28 Total Eclipse (Saros 121) 15 years after first Spanish visit Alta California. Path across modern LA, Santa Fe, Dallas, and Cape Canaveral. Saros 121's last appearance in the USA.

1562 Feb 3 Total Eclipse (Saros 133) Path over northwest.

1569 Sept 10 Total Eclipse (Saros 137) Path over extreme northeast. 300 years and 44 day pairing with USA eclipse of Aug 7 1869 (that is a long eclipse cycle I will point out a few times).

Saros 137 has series of profound eclipses: Titanic eclipse of 1912 , San Francisco 1930, Korea 1948, Columbus Death day 1966, USA 1984, Canadian Judgment 2021.

1574 Nov 13 Ring of Fire (Saros 116) Ring of Fire over what becomes New York City 50 years before the Dutch buy it for trinkets in 1624. Saros 116 reappears on Christmas Day 1628 with Ring of Fire over Charleston and Atlanta

Section 3 Summary: Once again, no real crosses overland of future boundaries of USA. An Octon Total Cross is visible over south-central Canada 1562 to 1569.



IV. California Hepton Cross 1578 and 1585

1578 Sep 1 Total Eclipse (Saros 118) Path travels length of future State north to south.

1585 April 29 Hybrid Eclipse (Saros 112) Path travels across the Northwest.

Saros 112: This is Saros 112's last appearance in the USA.

300/44 Pairings: Eclipses are both paired with the 1878 and 1885 Hepton Buffalo Cross.

While they could be organized as part of a 28-year six eclipse grouping beginning in 1557, I separated them because they are a distinct Hepton 2422 day cross. One of only eight Hepton Crosses in the survey, it is the only one over the US in the 16th Century. It occurs over California in the decades following the first Spanish explorations of that future state. This California Cross is not a True Hepton Total Cross like the 2017/2024 as the 1585 eclipse is a Hybrid, featuring only a few seconds of totality.

Apex appears to be Mount Shasta/ modern Redding area.

The 1500's end with only 10 complete eclipses having occurred over the contiguous USA, the lowest number of eclipses occurring during any of the centuries in the survey.



V. Cape Canaveral to Khartoum 1600

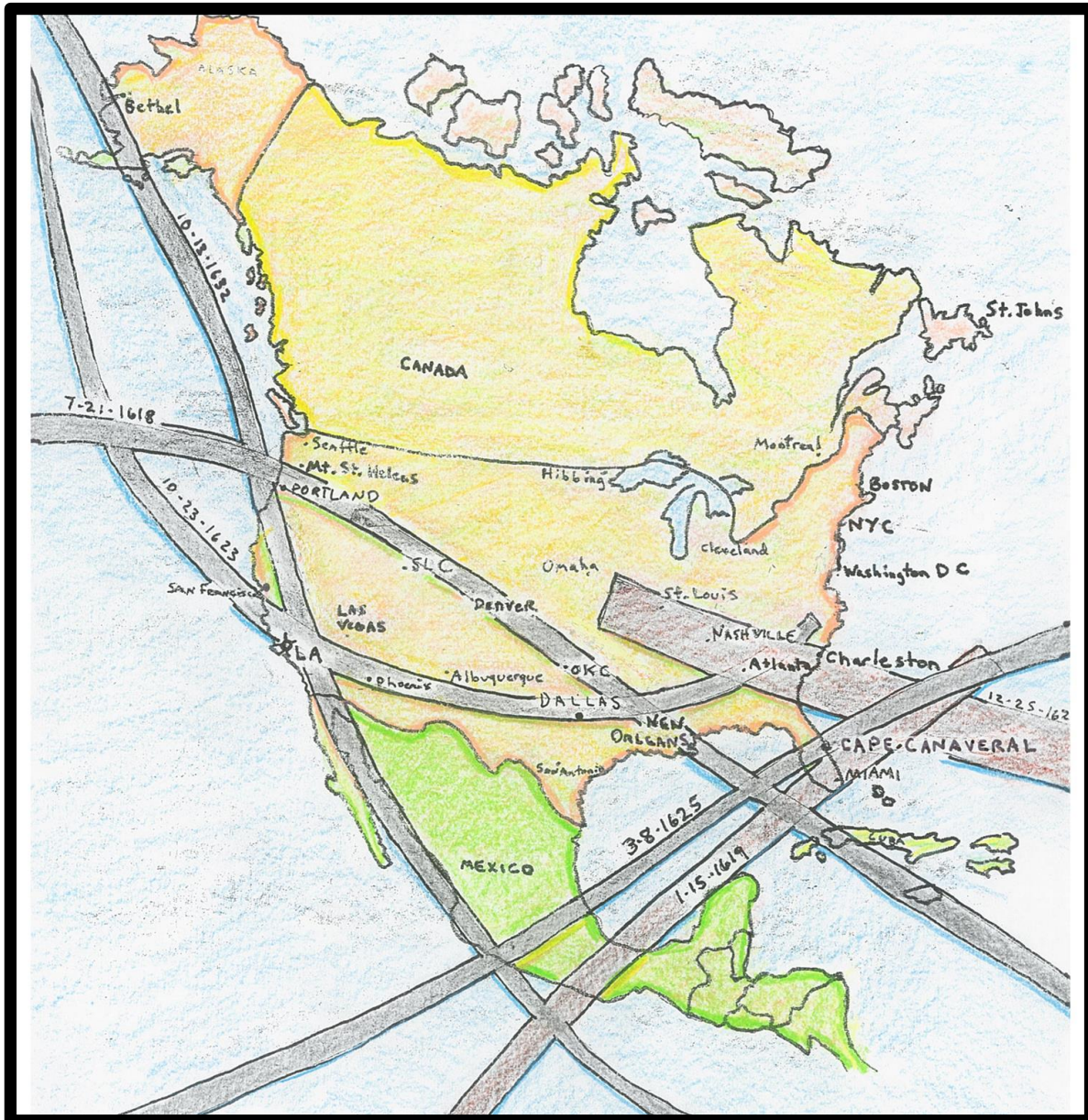
1600 July 10 Total Eclipse (Saros 120)

Eclipse begins at sunrise offshore of western Florida and crosses what will be Cape Canaveral/ Cape Kennedy. It goes on to Africa, including historic Egypt/Ethiopia, where it marks the first line of a Hepton Cross of 1600 to 1607 (see Middle East Maps).

300/44 Pairing: Paired with USA to Luxor 1900 total eclipse, the first eclipse of the 20th Century.

Saros 120: One of the greatest Saros of them all. No less than 10 profound eclipses, many in USA.

In what becomes the USA, this is the first complete solar eclipse in 15 years and the last eclipse for 18 years. It crosses a relatively tiny patch of ground with great significance. The Apollo Eleven Mission will leave from Cape Canaveral 369 years and 6 days later.



VI. USA Eclipse Swarm 1618 to 1632

(For 300/44 Pairing Comparison, look at 1918 to 1932 Swarm)

- 1618 July 21 Total Eclipse (Saros 120)
- 1619 Jan 15 Ring of Fire (Saros 125)
- 1623 Oct 23 Total Eclipse (Saros 137)
- 1625 Mar 8 Total Eclipse (Saros 114)
- 1628 Dec 25 Ring of Fire (Saros 116)
- 1632 Oct 13 Total Eclipse (Saros 118)

VI. First USA Eclipse Swarm 1618 to 1632

1618 July 21 Total Eclipse (Saros 120) First complete solar eclipse in USA in 18 years and one of only a handful of true cross-country eclipses in 500 years, though it does not quite fully reach East Coast. It occurs as the settlement of the future USA has begun in earnest. 1618 is known as the beginning of "The Great Migration". It is one year before the first importation of African slaves by the British in 1619. Smallpox moves from New England to Virginia, most notably killing Chief Powhatan, father of Pocahontas, in April of 1618. The European population of the Jamestown area will climb from 400 to 4500 between 1618 to 1623. **Hot Spots:** Denver, Oklahoma City, New Orleans

300/44: Paired with true USA Cross Country Eclipse of June 8, 1918

Saros 120: The Great Saros 120 was also the last eclipse in this survey (1600 July 10)

1619 Jan 15 Ring of Fire (Saros 125) The only time Martin Luther King's actual birthday appears in an American Eclipse, six months before the arrival of the first African slaves into USA and 310 years before his birth in 1929.

1623 Oct 23 Total Eclipse (Saros 137) The eclipse nearly crosses the country but ends just shy of the east Coast in North Carolina. Over modern LA, Phoenix, Dallas, Atlanta

300/44: Paired with 9-10-1923 Japan to LA Eclipse.

1625 Mar 8 Total Eclipse (Saros 114) Cape Canaveral's second total eclipse in 25 years; 344 years before Moon Launch. Florida only.

300/44: Paired with Jan 24 1925 NYC/ Roaring 20's/Bob Dylan Eclipse

1628 Dec 25 Christmas Ring of Fire (Saros 116) Christmas Monday Eclipse begins at sunrise near modern Columbia, Missouri and ends at sunset over Africa after creating a near approximation of northern boundary of future US slave states. The only complete US eclipse to occur on Christmas. Crosses 11 modern states. A very long eclipse lasting 12 minutes. **Saros 116** died completely on 7-22-1971. Memphis, New Madrid/Makanda, Lincoln Birth Home, Nashville, Shiloh, Savannah, Charleston (USA's biggest slave port).

1632 Oct 13 Total Eclipse (Saros 118) California only. Bisepts Silicon Valley and covers modern LA for its second total eclipse in 9 years.

300/44: Paired with Aug 31 1932 USA New England Total Eclipse

Notes: In these 14 years there were 6 solar eclipses. Several crosses occur in grouping, but none are between totals over the US except 1618 and 1623, with apex at modern-day Shreveport, Louisiana. Apex of 1628/1623 annular-total cross is north of Atlanta. This swarm corresponds (through 300/44 pairing) to many eclipses in the 1918 to 1932 USA swarm. Four of the six have corresponding eclipses. This swarm coincides with the "Great Migration" to the New World from Britain. In 1618 there were only hundreds of settlers in what would become the USA. By 1640, there would be nearly 25,000. It would be 38 years after this swarm before another solar eclipse in the USA in 1670, the longest stretch between complete eclipses in US history. By then, there would be more than 100,000 colonists of European heritage in America and the US would have another extraordinary eclipse swarm. The 1618 and 1625 eclipses are a Hepton pair. The 1625 and 1632 eclipses are an Octon pair. The same Hepton/Octon configurations occur in 1918 to 1925 and 1925 to 1932 eclipses.



VII. Eclipse Swarm Two—1670 to 1684

- 1670 Apr 19 Total Eclipse (Saros 133)
- 1672 Aug 22 Total Eclipse (Saros 120)
- 1673 Feb 16 Ring of Fire (Saros 125)
- 1679 Apr 10 Total Eclipse (Saros 114)
- 1683 Jan 27 Ring of Fire (Saros 116)
- 1684 July 12 Hybrid Eclipse (Saros 131)

VII. Eclipse Swarm Two—1670 to 1684

1670 April 19 Total Eclipse (Saros 133) An extraordinary eclipse touches perhaps the smallest amount of US land in the survey, the very northwest tip of Washington's Olympic Peninsula, bringing totality to Mount Olympus (named 108 years later). April 19 is Darwin death day 212 years later in 1882.

300/44: paired with Mar 7 1970 USA "End of 1960's" eclipse.

1672 Aug 22 Total Eclipse (Saros 120) Only Maine.

300/44: Paired with July 10 1972 "You're So Vain" Nova Scotia eclipse.

1673 Feb 16 Ring of Fire (Saros 125)

San Antonio/Utopia Texas, Jackson, Birmingham, Atlanta, Charlotte. Ends almost precisely at Kitty Hawk, which will be home of the first airplane flight in 1903.

1679 Apr 10 Total Eclipse (Saros 114)

Hot Spots: LA, Las Vegas, Zion Utah, Wounded Knee, Hibbing (home of Bob Dylan)

300/44: paired with Feb 26 1979 Microsoft/ Mount Saint Helens Eclipse.

Saros: This is Saros 114's last appearance in the USA. It dies completely Sep 12 1931.

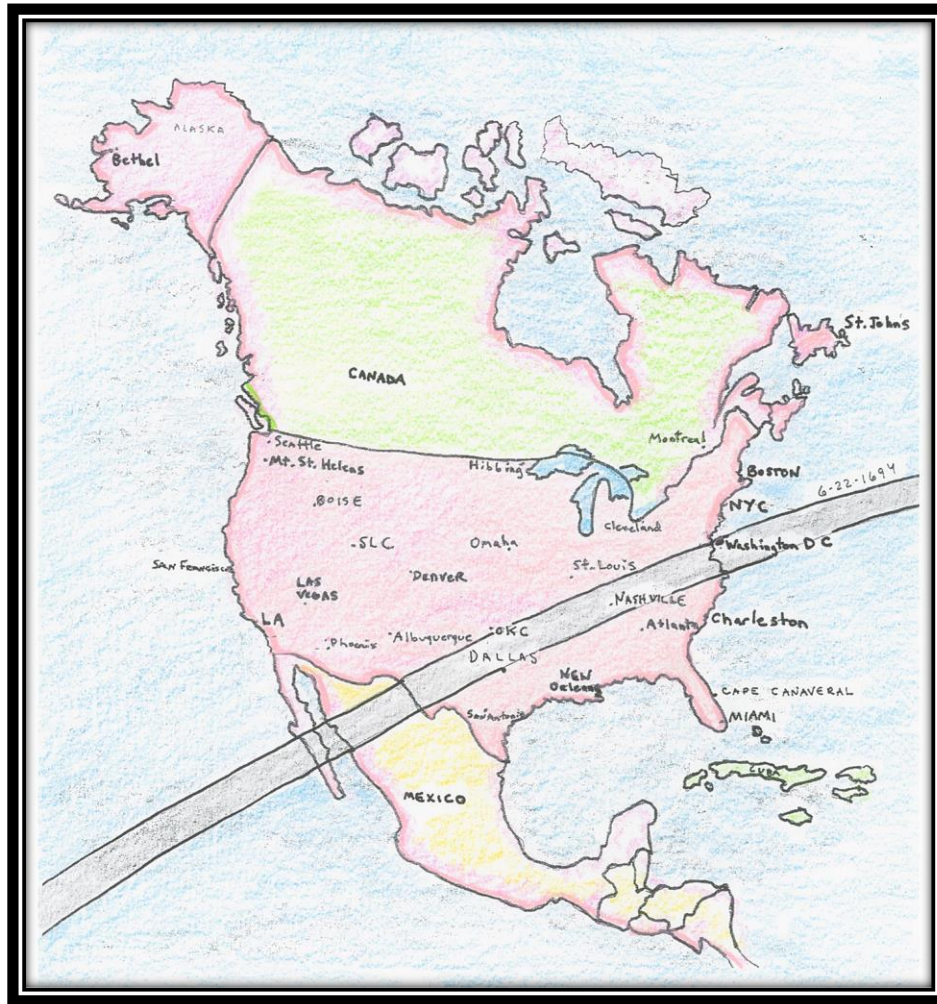
1683 Jan 27—Ring of Fire (Saros 116) Mostly Texas...San Antonio, Utopia, Corpus Christi, Houston, extreme south Florida.

1684 July 12 Hybrid Eclipse (Saros 131) 23 seconds of totality in narrow band...

300/44: paired with Washington DC/Atlanta/New Orleans 5-30-1984 Hybrid/Annular

Notes: 38 years (Two 19 year Metonics) after the last complete eclipse in the USA, another swarm of six complete solar eclipses occur in 14 years as America becomes increasingly settled. European and slave Populations in America double between 1670 and 1690. Both the slave trade and wars against the natives increase. Two crosses occur over Canada. The 1672 and 1679 are a Hepton Pair meeting in northern Quebec. Central Texas sees three eclipses, with modern San Antonio near the apex of a 10 year minus 19 day Cross.

The two 17th century eclipse swarms occupy only a small part of the USA's chronological history but contain 1/6th of its eclipses.



VIII. 17th Century Stand Alone Ring of Fire 1694

1694 June 26 Ring of Fire (Saros 122) Midland TX, Tahlequah OK (modern capital of Cherokee Nation) Crosses apex of 2017-2024 Cross at Makanda Illinois. Also crosses Lincoln Birthplace in Kentucky, Nashville, almost entire state of West Virginia in one of its only eclipses, and exits after passing over future Washington DC, ending at sunset over Africa just before Slave port of Porto Novo in Benin. **300/44:** paired with great May 10 1994 USA ring of Fire.

Saros 122: This is the last time Saros 122 will appear in the future US as a complete eclipse. It was responsible for the notable Christmas Dec 25 2000 USA partial eclipse.

Notes: Ten years minus 19 days (9 solar years plus one eclipse year) after last USA eclipse in 1674 and 19 years before the next one, this eclipse stands alone in time. It touches 14 future US states and symbolically divides the future nation very close to the coming Mason-Dixon Line. By now the US European and African American slave population has reached nearly 250,000 and the exponential direction of migration, the slave trade and native conquest are firmly established.



IX. Standing Rock Cross Swarm 1713 to 1724

1713 Dec 17 Hybrid Eclipse (Saros 137)

1717 Oct 4 Hybrid Eclipse (Saros 139)

1722 Dec 8 Ring of Fire (Saros 118)

1724 May 22 Total Eclipse (Saros 133)

IX. Standing Rock Cross Swarm 1713 to 1724

1713 Dec 17 Hybrid Eclipse (Saros 137) 56 seconds of totality in certain spots. Path from sunrise in southwest Utah. Crosses Los Alamos and Santa Fe. Exits Texas. Crosses Columbus landing site, San Salvador, in the Bahamas 233 eclipse years after event.

1717 Oct 4 Hybrid Eclipse (Saros 139) Third hybrid eclipse in USA out of last four eclipses, the only time that happens in this survey. First eclipse of Standing Rock Hepton Cross. Crosses 11 states.

Saros 139: Saros 139's first US appearance. It reappears in the USA on Apr 08 2024, as the opposite position of another Hepton Cross. Will become most the powerful Saros of the 21st and 22nd century.

300/44: Paired with August 21 2017 USA Great Eclipse.

1722 Dec 8 Ring of Fire (Saros 118) Only Maine.

May 22 Total Eclipse (Saros 133) Tremendous solar eclipse (one of the widest paths in entire survey) completes the Standing Rock Hepton Cross.

Hot Spots: LA and Las Vegas in centerline, Scrapes Salt Lake City, Covers Pine Ridge and Wounded Knee, South Dakota

300/44: Paired with April 8 2024 Great North American Eclipse.

In the space of ten and ½ years, there are four eclipses. The Standing Rock Cross is the best example of a Hepton Cross in the contiguous USA outside of the 2017/2024 American event, the primary subject of our survey. In the amazing reality of the eclipse cycles, 300 years minus 44 days separate the two great crosses of the Standing Rock Cross and The American Judgment Cross.

Saros 139 appears in both events at opposite ends of the Cross. In the 1717 Cross, Saros 139 is the first eclipse, traveling northwest to southeast. In 2024, Saros 139 will be the second eclipse of the cross, traveling southwest to northeast. The apex of the Standing Rock Cross is in the modern Standing Rock Sioux Indian reservation which straddles the border of North and South Dakota.

Epicenter of apex is about 50 miles from the geographical center of North America, most recently determined to be in town of Center, North Dakota, which oddly enough received its name well prior to the discovery. Two other towns in North Dakota also claim this title.

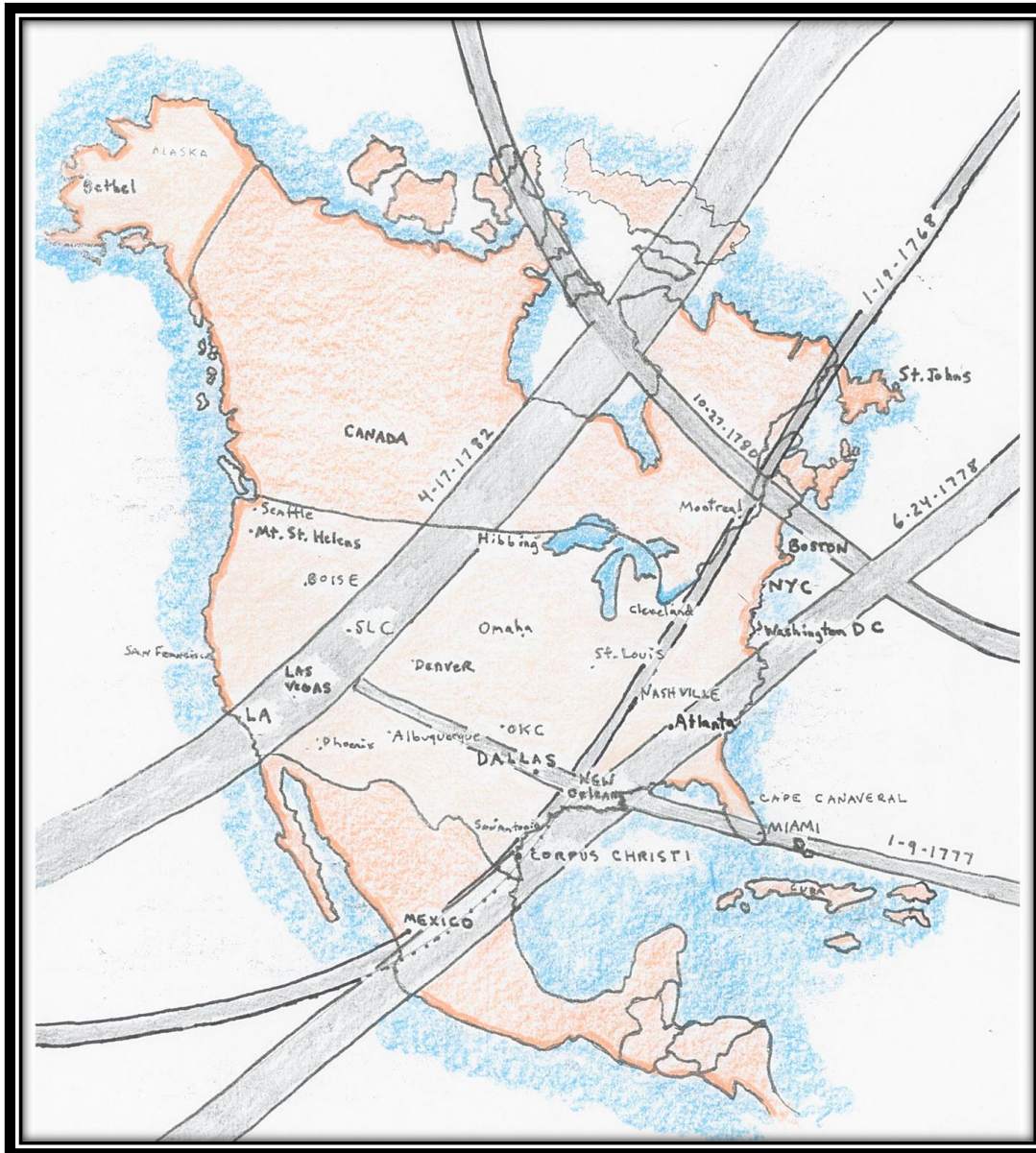
As unique as the Standing Rock Cross is, it must be noted that the 1717 eclipse is a hybrid eclipse, and therefore not a true Hepton Total Cross as we see in the 2017/2024 Tav. Hybrids typically only provide a few seconds of totality and can waiver in and out of totality altogether. By 1724, the European and Slave population of the USA had grown to more than half a million.



X. Florida Duo 1737 and 1752

1737 Mar 1 Ring of Fire (Saros 116) Covers same area as Texas Cross of 2023/2024. Centerline at Corpus Christi. Occurs at sunrise over Texas. almost exactly 302 (301.99) eclipse years before oct 14 2023 ring of fire eclipse, which also crosses Texas and also featuring a centerline exit at Corpus Christi. San Antonio's third Ring of Fire in 64 years. Cape Canaveral/ Kennedy again.

1752 May 13 Total Eclipse (Saros 124) Eclipse travels from Mexico City through Miami. In the 44 years between the 1724 Standing Rock Cross and the first eclipse of the Revolution (1768), these are the only two eclipses. They intersect (but do not cross) over South Florida. During this time frame, Florida is a contested area with battles between British, Spanish and native tribes.



XI. US Revolution Eclipse Swarm 1768 to 1782

- 1768 Jan 19 Hybrid Eclipse (Saros 137)
- 1777 Jan 9 Ring of Fire (Saros 118)
- 1778 June 24 Total Eclipse (Saros 133)
- 1780 Oct 27 Total Eclipse (Saros 120)
- 1782 Apr 12 Ring of Fire (Saros 135)

XI. US Revolution Eclipse Swarm 1768 to 1782

1768 Jan 19 Hybrid Eclipse (Saros 137) 13 seconds of totality four miles wide spottily shoots across the USA, loosely along the western side of the 13 colonies. 1768 is widely considered the beginning of the revolution as tensions begin to boil over between Colonists and the British.

1777 Jan 9 Ring of Fire (Saros 118) 190 days after the Declaration of Independence, a ring of fire ... Begins over Mesa Verde, Colorado (last home of the Anasazi). Thin eclipse path travels over Dallas, New Orleans and Miami. Also Columbus Landing site in the Bahamas and ends at La Coruna, Spain (The Crown?) **Saros 118:** Saros 118 returns for Lincoln's 19th Birthday Feb 12 1831 eclipse over USA.

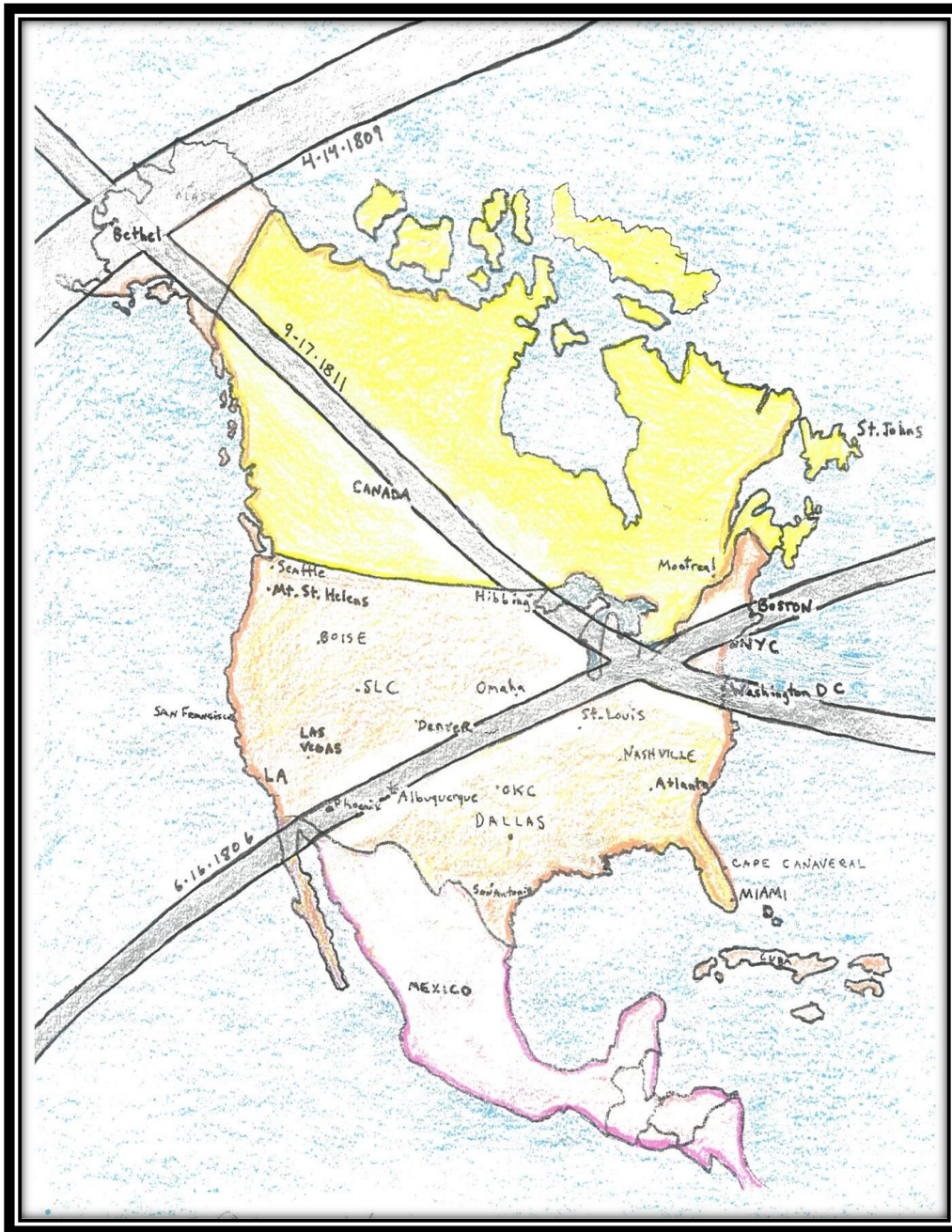
1778 Jun 24 Total Eclipse (Saros 133) An important total eclipse noted by historians and troops at the time. New Orleans receives its second eclipse in a year and a half. Totality in Atlanta and Virginia. Occurs four days before the Battle of Monmouth, a strategic moral victory for the revolutionary Army.

1780 Oct 27 Total Eclipse (Saros 120) ... Eclipse only in Maine. Three weeks after major defeat of British at Battle of Kings Mountain. Very close to one lunar year before final defeat of British at Yorktown on 10-19-1781

1782 April 12 Ring of Fire (Saros 135) Six months after British defeat at Yorktown, as British Forces evacuate the colonies, a great ring of fire goes across the still wild west. Los Angeles (founded 7 months before on 9-4-1781), future Las Vegas and Salt Lake City all in the path.

The American revolution is neatly outlined by 5 eclipses in 14 years. The 1777 and 1778 eclipses were both noted by George Washington and witnessed by troops and scientist historians. By the end of the Revolutionary War, the US population will be at nearly 3 million. It will be 24 years after the 1782 eclipse before another solar eclipse occurs in the USA in 1806. By then, the territory of the new nation will have expanded dramatically with the Louisiana purchase and the population will double again.

Of interest, there also happened to be a total eclipse on July 4, 1796 (the 20-year anniversary of the signing of the Declaration of Independence). That eclipse travels across Empty Pacific Ocean, touches virtually no land except beginning on a tiny sliver of beach at sunrise on the Philippines and ends off the west coast of Mexico without touching land. It was the only solar eclipse on July 4th date for hundreds of years past or future on planet earth.



XII: Lincoln Birth/Bethel and Cleveland Cross 1806 to 1811

1806 June 16 Total Eclipse (Saros 124)

1809 April 14 Ring of Fire (Saros 116)

1811 Sept 17 Ring of Fire (Saros 141)

XII. Lincoln Birth/-Bethel and Cleveland Cross 1806 to 1811

1806 June 16 Cross Country Total Eclipse (Saros 124) A truly great American eclipse, almost fully Cross-country two and ½ years before Abe Lincoln's birth and 62 eclipse years exactly before his death. The only total cross-country eclipse to travel southwest to northeast, directly across American heartland. It begins in the desert of Arizona and travels the length of the 30-year-old nation. Travels over future Phoenix, Albuquerque, Kansas City, Springfield Il, south Chicago, Boston
Saros 124: Notably appears for Civil War Seattle eclipse Jul 18 1860 and WWI eclipse Aug 21 1914.

1809 April 14 Lincoln Ring of Fire (Saros 116) Only eclipse included that doesn't appear over contiguous USA. Passes over what will come to be named Bethel ("House of God") in Hebrew, Alaska on the same day upon which Lincoln will be shot 56 years later. Eclipse occurs 2 months and 2 days after he is born on Feb 12 1809. Very slight partial coverage over his birthplace in Kentucky.
Saros 116: has its last complete eclipse 2 eclipses later in 1845 and dies completely on 7-22-1971, which is 2 years and 2 days after the moon landing, exactly 38 solar years before Wuhan Eclipse and exactly 112 eclipse years after Lincoln's assassination on April 14/15 1865.

1811 Sep 17 Ring of Fire (Saros 141) The great Saros 141 crosses the 1809 eclipse in modern Bethel. Crosses Canada and then bulk of Northeast US (12 states). Hibbing MN, Michigan, Columbus Ohio and Washington DC, Jamestown.
Saros 141: 141 is one of the greatest Saros of the last thousand years, producing the longest eclipses. Returns in Farewell Abraham Oct 19 1865, 188 days after the murder of Lincoln. Also creates JFK Premonition in 1919, 1955 Southeast Asia and 1992 LA Sunset.

Abraham Lincoln's life and death bear an unusual relation to solar eclipses. The midpoint of these 1806 and 1811 eclipses is Feb 4 1812, just 8 days before the President's birth on Feb 12 1809. Springfield Illinois, (Lincoln's most famous hometown) receives totality in the first eclipse and Washington DC, where he served and died as President is in the last. The middle eclipse bears the date of his death 2 months and 2 days after his birth. These are just the beginning of eclipse peculiarities surrounding the martyred President. See section on Lincoln and Kennedy.

The 1806 and 1811 eclipses cross in Cleveland, which was founded in 1796. It is not a Hepton Cross, and one of the eclipses is annular, but it's still probably the most pronounced US cross until our current ones.



XIII. Two Ring of Fires in 178 days- 1821 and 1822

1821 Aug 27 Ring of Fire (Saros 132) An “almost” Cross Country Eclipse through the Deep South.
Hot Spots: El Paso, Midland, Dallas, Shreveport, Jackson, Columbus, Savannah

1822 Feb 21 Ring of Fire/ Hybrid (Saros 137) Occurs over far west, including Mount Shasta

These two eclipses occur 178 days apart. This is the shortest period between American eclipses in this 531-year survey. 177 days is typically the shortest time possible between complete solar eclipses on earth at any time and are called “semester series”, beginning days of opposite eclipse seasons.



XIV. Trail of Tears Octon 1831 to 1838

1831 Feb 12 Lincoln Birthday/ Nat Turner Ring of Fire (Saros 118)

1834 Nov 30 Trail of Tears Total Eclipse (Saros 120)

1838 Sep 18 Washington DC Ring of Fire (Saros 122)

XIV: Trail of Tears Octon 1831 to 1838

1831 Feb 12 Lincoln Birthday/ Nat Turner Ring of Fire (Saros 118) On Abraham Lincoln's 19th birthday, this eclipse across the southeastern USA inspires the young (and mystical religious) Nat Turner to begin preparations for the largest slave rebellion in US history, which he leads on August 21, 1831 (an important Metonic date—see great eclipses of 1914, 1933, and 2017). Simultaneously, forced relocation of the Southeastern Native Tribes of Cherokee, Creek, Choctaw, Seminole and Osage is in full swing after Indian Removal Act of 1830 (famously opposed by Davy Crockett). It becomes known as The Trail of Tears. Lincoln could have seen this eclipse on his birthday, as least as a deep partial.

In all, 9 slave states experienced the eclipse, probably the most geographically possible. Houston (5 years before Texas revolution), Atlanta, Richmond, Jamestown.

Saros 118: returns to US for Buffalo Eclipse of Mar 16 1885 and finishes a thousand years of complete eclipses with successive eclipses on Hitler Birthday and Death day in Apr 19 1939 and Apr 30 1957.

1834 Nov 30 Trail of Tears Total Eclipse (Saros 120) One of the most extraordinary eclipse paths in history traces the Trail of Tears from Georgia to Oklahoma at the same time as the forced marches were proceeding. Atlanta, Charleston, Columbus GA, Tahlequah OK (modern capital of Cherokees) first settled beginning in 1832. This is Tahlequah's only total eclipse in survey. In path again in 2045.

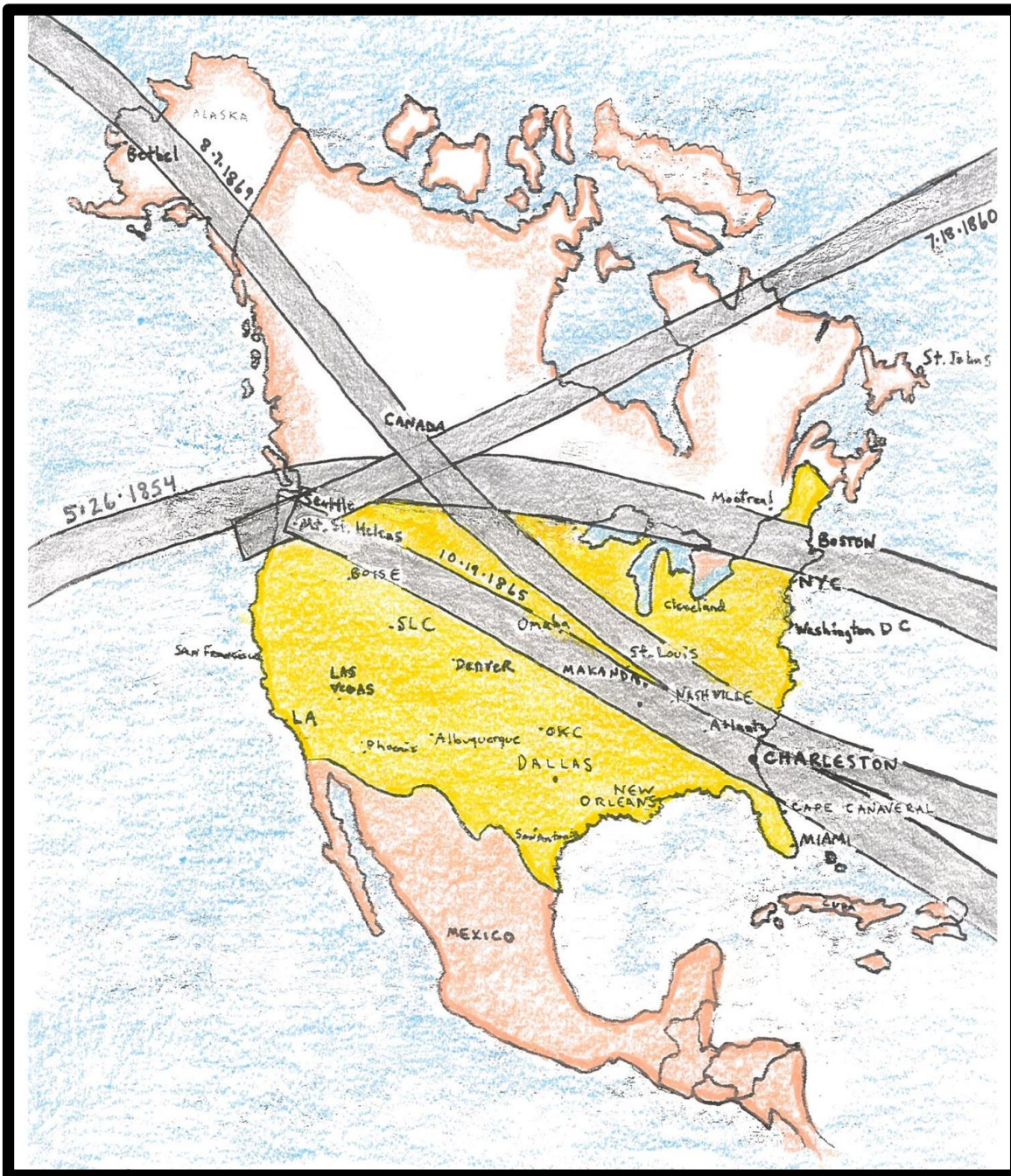
Saros 120: Saros 120 continues its run up to the present day as one of the most clearly ominous eclipses of the Saros. It ends its history of complete eclipses in 2033 connecting the Eastern and Western Hemispheres simultaneously across the Bering Strait, within 4 days of the 2,000th anniversary of the death of Jesus Christ.

1838 Sep 18 Washington DC Ring of Fire (Saros 122) In the most deadly year of the Trail of Tears, a wide ring of fire across 13 northern states. Many of the great northern cities. Hibbing, Detroit, Cleveland, Columbus OH, Pittsburgh, Philadelphia, New York City, Baltimore. Washington DC, where the Cherokees were betrayed, is the centerline of the Ring of fire.

How to view such a piece of time art? History marked with shadows. It sings in a cosmic record the hand and song of God. The eclipse paths are eternal art. The subject matter? God only knows (and He does). It certainly seems like a story song. The worst kinds of human treachery and bondage were being lived out in a broken world under the banner of the freest nation in human history. God sees everything.

Between the 1831 and 1838 eclipses, there are exactly 7 years, 7 months, and 7 days (an Octon—exactly 8 eclipse years). The 1834 Trail of Tears eclipse is situated at the precise mid-point on the calendar (at 8 eclipse seasons either way).

It is also at the midpoint of the map geographically. One of the greatest God Songs I've seen.



XV. Civil War 1854 to 1869

- 1854 May 26 Northern Border Ring of Fire (Saros 135)**
- 1860 Jul 18 Total Eclipse Seattle (Saros 124)**
- 1865 Oct 19 Farewell Abraham Ring of Fire (Saros 141)**
- 1869 Aug 7 Golden Spike Total Eclipse (Saros 143)**

XV. Civil War/ Farewell Abraham 1854 to 1869

1854 May 26 Northern Border Ring of Fire (Saros 135) There's never been another eclipse that so perfectly straddles the US/ Canada border. Washington to Maine, all 12 states of the northern border. Eclipse happens 4 days before the passing of the Kansas-Nebraska Act on May 30, 1854, which opened up new territories to slavery, prompting violent clashes which accelerated the race to Civil War. Abraham Lincoln opposed the Act and gave one of his most famous anti-slavery speeches in October 1854, resurrecting his political career and leading him eventually to the White House. From that speech:

" Little by little, but steadily as man's march to the grave, we have been giving up the old for the new faith. Nearly eighty years ago we began by declaring that all men are created equal; but now from that beginning we have run down to the other declaration, that for some men to enslave others is a 'sacred right of self-government.' These principles cannot stand together. They are as opposite as God and Mammon; and whoever holds to the one must despise the other."— Abraham Lincoln

1860 Jul 18 Total Eclipse Seattle (Saros 124) Three and ½ months before Lincoln is elected in November, a total eclipse over Seattle, founded 9 years before. 120 years before Mount Saint Helens eruption. First of two Mt. St. Helens USA eclipses in a row (four in 119 years).The secession of the southern states began on December 20 1860.

1865 Oct 19 Farewell Abraham Ring of Fire (Saros 141) 188 days after the assassination of Lincoln on Passover and Good Friday 1865, the Cross-country eclipse starts over Mount Saint Helens at sunrise and crosses the entire USA to exit at the notorious slave port of Charleston, SC. A total of 20 states and territories witnessed the eclipse, the most crossed by any eclipse in this 500-year survey. At 9 minutes 27 seconds, it would be among the longest eclipses in American history. It would cross Lincoln's birthplace and boyhood home in Kentucky. It also crosses the apex of the 2017/2024 eclipses at Makanda, Illinois, as it follows an almost identical path as the August 21 2017 USA eclipse. The eclipse manages to cross the Atlantic and end at sunset on the Western coast of Africa. Seattle, Portland, Billings, Lincoln NE, Kansas City, Columbia, St. Louis, Nashville, Atlanta, Charleston.

Saros 141: Saros 141 create 11-22-1919 JFK death day eclipse. Saros 141 delivers the longest eclipses in the last thousand years, including ominous ones on 11-11-1901 over Egypt, Dec 14 1955 over Vietnam and Southeast Asia—the longest in 1000 years at 12 minutes 9 seconds just as war began. Also comes for the LA ring of Fire Jan 4 1992 three months before the Rodney King riots. Its next eclipse is Australia Day Ring of Fire South America to Spain on 1-26-2028.

1869 Aug 7 Golden Spike Total Eclipse (Saros 143) A total eclipse across the heart of the nation including Lincoln's adopted hometown of Springfield, Illinois. 3 months after "the golden spike" at Promontory Utah completes the American transcontinental railroad. Within 15 years of this eclipse nearly every buffalo in America was dead and the final free native tribes of the western United States would be brutally subjugated, and the survivors herded onto reservations.



XVI. Far West—Buffalo Eclipse Swarm 1878 to 1889

- 1878 Jul 19 Buffalo Cross Total Eclipse (Saros 135)
- 1880 Jan 11 Salt Lake City Total Eclipse (Saros 139)
- 1885 Mar 16 Buffalo Cross Ring of Fire (Saros 118)
- 1889 Jan 1 New Years Day Total Eclipse (Saros 120)

XVI. Far West—Buffalo Eclipse Swarm- 1878 to 1889

1878 Jul 19 Buffalo Cross Total Eclipse (Saros 135) First half of a Hepton Cross makes a swooping pass from Alaska to the Gulf of Mexico. Denver and Dallas are in the path of Totality.

1880 Jan 11 Salt Lake City Total Eclipse (Saros 139) The great Saros 139 ends at sunset just past Salt Lake City, after giving the capital of Mormonism its only total eclipse in US history. The 1880 census showed 20,768 residents of Salt Lake City. Only 18 months after the 1878 eclipse. one of only three times American total eclipses occur so close together in survey. The eclipse stops just shy of interacting with the other paths.

1885 Mar 16 Buffalo Cross Ring of Fire (Saros 118) Mount Shasta in centerline as well as Boise, Idaho. Second half of a Hepton with the 1878 eclipse.

1889 Jan 1 Total Eclipse (Saros 120) New Years Day, USA. Of course, the amazing Saros 120 gives an ominous New Year's Eclipse. Passes just north of San Francisco. Reno, Idaho Falls, Billings MT, almost the entire Yellowstone park. Less than two years before Wounded Knee.

Saros 120: Saros 120 returns to the USA for NYC Eclipse of Jan 24 1925 then Mount Saint Helens/Microsoft Eclipse on Feb 26 1979. It brings the almost unreal Bering Strait eclipse of 3-30-2033, which links the eastern and western hemispheres. Saros 120 had the last eclipse on earth before Columbus came to the Americas, over the isthmus of Panama connecting North and South America on Apr 26 1492.

There's never been such a systematic extermination of so grand an animal as the Buffalo, primarily carried out between 1860 and 1885. This unprecedented catastrophe accompanied the conquest of the Plains and Intermountain Tribes who depended on the Buffalo to survive. From perhaps 60 million Buffalo in 1850, only a few hundred remained by 1885. The vast majority were killed from 1870 to 1880 for hides and often left to rot.

The solar eclipse swarm of 1878 to 1889 draws a unique and dramatic pattern across the land.



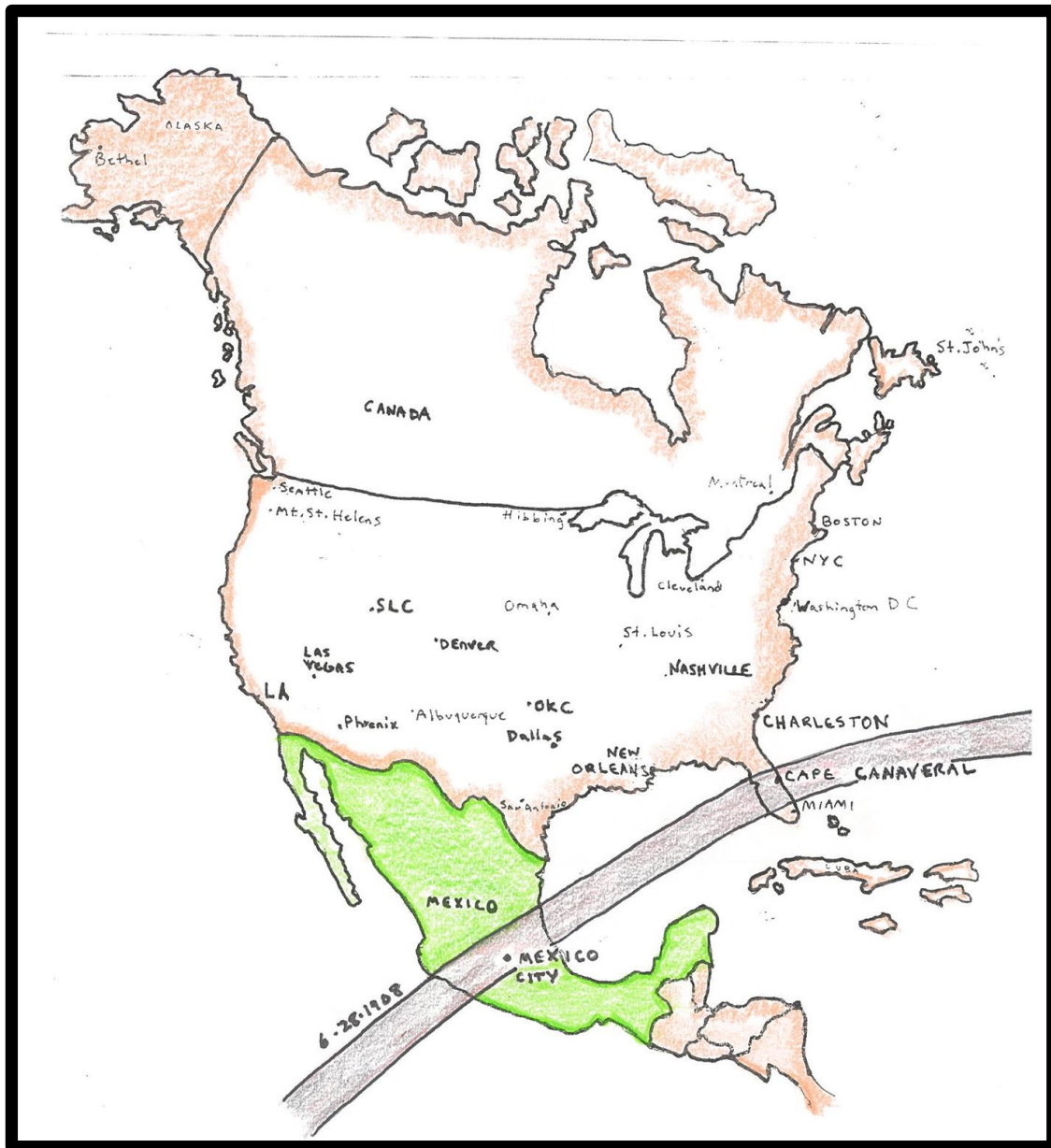
XVII. 20th Century's First Total Eclipse 1900 May 28 (Saros 126)

May 28 1900 The first eclipse of the 20th Century on planet earth, either lunar or solar, connects the imperial characters of the USA and Egypt. 17 years (and one day) before the birth of John F. Kennedy. The next solar eclipse on earth will occur on November 22 1900, 63 years to the day before his murder. JFK's birth and death days run side by side throughout eclipse history (see "personalities in eclipse" section). Eclipse begins in the Pacific and ends just before Luxor, Egypt with 95% coverage as the sun sets. Mazatlan, New Orleans, Columbus GA, Jamestown, Spain and Portugal, Algiers, Tripoli (which is in several 20th century eclipses), Luxor Egypt at sunset.

300/44: paired with 1600 Jul 10 Cape Canaveral to Khartoum

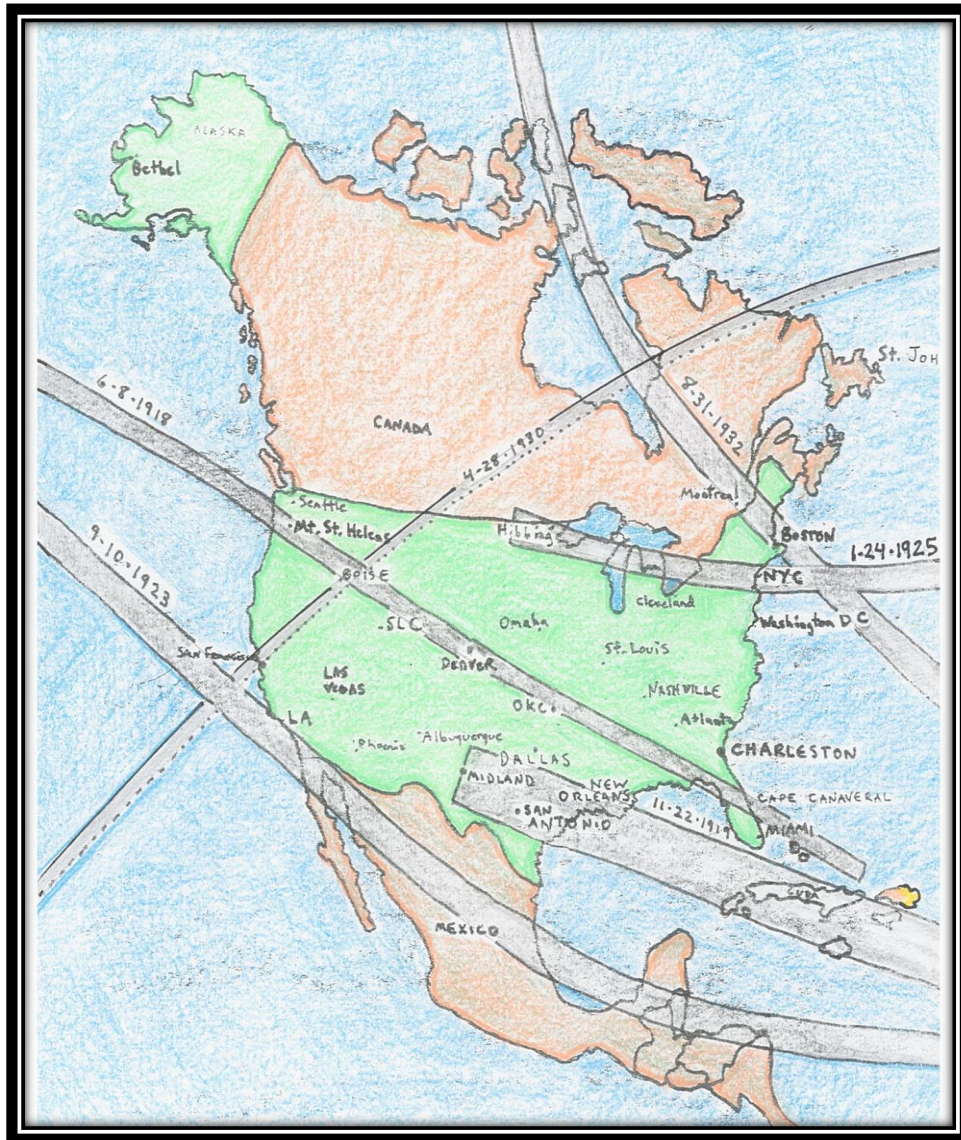
Saros 126: Saros 126 makes its first appearance in the USA with only its second eclipse as a Total. It returns again on its next cycle as the great June 8 1918 USA cross-country eclipse. It also brings the June 30 1954 USA to Iran Shahrud Eclipse Total.

Next up for **Saros 126?** Aug 12 2026 in Spain. Hasta Luego, amigo.



XVIII: Temple of Sun and Moon-Mexico City/Cape Canaveral 1908 June 28

Jun 28 1908 Ring of Fire (Saros 135) Eclipse begins just offshore of Mexico, crosses both great metropolises of the two great civilizations of ancient Mexico, Teotihuacan and Tenochtitlan—including the Temple of the Sun and Moon. The path of Annularity then crosses Cape Canaveral 61 years before the liftoff of Apollo 11 on Jul 16 1969 on its way to the Moon. Path ends in Ghana, Africa. The eclipse occurs 60 days before the birth of Lyndon Johnson on August 27 1908. 66% coverage where he would be born in Stonewall Texas. In 11 years, an eclipse will go directly over his home. He would be the president who would nurture the Apollo moon program (inherited from Kennedy) before his term ended six months exactly before the moon landing.



XIX. Great American Eclipse Swarm 1918 to 1932

1918 June 8 Cross Country American Century Total Eclipse (Saros 126) One of the greatest and most witnessed eclipses in US history. Ten years minus 10 days from the Temple of Sun/Moon-Cape Canaveral Eclipse. It happens as the nation is simultaneously embroiled in World War One and facing the opening months of the Spanish Flu Pandemic. The path is an inverse reflection of the Aug 21 2017 eclipse. Eclipse over Cape Canaveral, its second eclipse in ten years. The beginning of the American Century, reckoned here as from 1918 to 2017. Mount Saint Helens (3rd eclipse in 58 years), Denver, OKC, Cape Canaveral **300/44 Pairing:** 1618 Jul 21 US Eclipse
Hepton: paired with Roaring 20's 1925 Jan 24 NYC eclipse.

1919 Nov 22 JFK Premonition Ring of Fire (Saros 141) One of the incredible John F. Kennedy eclipses. JFK is a two-year-old in Boston when it occurs. This Ring of Fire begins 44 years to the day before his murder on Nov 22 1963. Path begins at sunrise in Texas, in the state JFK where will be murdered, passing over the boyhood home of a ten-year-old Lyndon Johnson, the man who will replace him. Path

crosses entire island of Cuba, the only time this happens in our 500-year survey. Cuba would be forever associated with Kennedy's Presidency. Path ends in Africa. Sunrise at Midland Texas (sometimes home of the Bushes), San Antonio, Austin, Houston, Havana. Ends at sunset in ancient city of Timbuktu, Mali in Africa.

300/44 Pairing: 1619 Jan 15 USA to Africa 310 years before Martin L. King birth.

Saros 141: Almost the longest eclipse in US history at 11 minutes 37 seconds.

1923 Sep 10 Earthquake Companions Japan to LA Total Eclipse (Saros 143) Eclipse begins in the northern islands of Japan 9 days after worst disaster in Japanese history, the Great Tokyo/Yokohama Earthquake and Fire of Sep 1 1923. Bisepts southern metropolis of Los Angeles and gives totality to San Diego. One week before the birth of singer Hank Williams in Mount Olive, Alabama (58% coverage) on 1923 Sep 17.

300/44 pairing: coupled with 1623 Oct 23 eclipse, which also had totality in LA.

Saros 143: Last time in USA was 1869 Total. Returns for Boston single City in 1959

1925 Jan 24 Roaring 20's/ NYC/ Bob Dylan Total Eclipse (Saros 120): The great Saros 120 brings totality to New York City at the peak of its new maximum expression. The path begins at sunrise over Bob Dylan's Birthplace and Home (Duluth and Hibbing) goes over Woodstock and New York City 36 years to the day before a 19-year-old Dylan shows up from Minnesota in New York on Jan 24 1961. Eclipse is within months of birth of Robert Kennedy, Malcolm X, George HW Bush and an astonishing variety of famous people. Path crosses to England.

300/44 pairing: paired with 1625 Mar 8 eclipse over Cape Canaveral.

Saros 120: What more can you say about Saros 120? Trail of Tears 1834, Death of the Buffalo New Year's 1889, Iron Curtain 1961, Mount Saint Helens 1979, North Pole Equinox 2015 and the Great Bering Strait Jesus Anniversary of 2033.

1930 Apr 28 Bizarre San Francisco Hybrid (Saros 137) the pinpoint of totality was less than a half mile wide and lasted but a few seconds as it passed apparently just north of downtown San Francisco in this Hybrid eclipse. 36 years and two days before founding of Church of Satan by Anton LaVey in San Francisco in April 30 1966 (itself the 21st anniversary of Hitler's death).

Saros 137: Korea in 1948, US in 1984, Pandemic Solstice 2021

1932 Aug 31 Northeastern US Total Eclipse (Saros 124) small area of US totality includes New Hampshire and Vermont. Kennebunkport Maine (spiritual center of the Bush family) Cape Cod (spiritual center of the Kennedy's) in totality as well as totality bisecting birthplace of both George HW Bush and the Kennedy's in Boston. JFK was 15 years old, RFK and Bush were both 7 years old.

Summary of perhaps the greatest US swarm ever? Six eclipses in fourteen years with endless associations and implications. The next eclipse occurs in the USA 7 years, 7 months and 7 days later- (Apr 7 1940) in an Octon Cycle with the 1932 final eclipse of swarm. That will be the longest period of time between eclipses in the years 1918 to 1984. The 20th Century was a rich time for US eclipses.



XX. USA 1940 to 1954 –Emanations

- 1940 Apr 7 Ring of Fire Deep South (Saros 128)**
- 1945 Jul 9 Atom Bomb Total Eclipse US to USSR (Saros 145)**
- 1951 Sep 1 Jamestown to Angola Ring of Fire (Saros 134)**
- 1954 June 30 USA Heartland to Shahrud Iran Total eclipse (Saros 126)**

XX. USA 1940 to 1954-Emanations

1940 Apr 7 Ring of Fire Deep South (Saros 128) Eclipse runs along Gulf Coast 64 years and one day before upcoming 2024 Apr 8 eclipse. Those are the closest eclipses to Easter in the survey, both 8 days after Easter, apparently as close as you can get a solar eclipse to Easter. 20 months to the day (609 days) before Pearl Harbor. As with Pearl Harbor, also on a Sunday. San Antonio, Houston, New Orleans. **Saros 128:** Saros 128's first appearance in USA. Returns for two consecutive eclipses in the US in 1994 and 2012. Reappears over Athens and Istanbul in 2030.

1945 July 9 Atom Bomb Total Eclipse US to USSR (Saros 145) July 9 1945 is the day White Sand's Missile Range in New Mexico was established by the USA to create a place for "the bomb". There was an eclipse that day from the USA to the USSR. One week later, on July 16th the world's first atomic bomb was detonated. Hindu scripture ran through the mind of Atomic Bomb father Robert Oppenheimer as he watched: *"Now I am become Death, the destroyer of worlds."* The bomb was used on humanity 27 days later in Hiroshima and then in Nagasaki, Japan. This total solar eclipse travels from the USA to USSR one week before the detonation. 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 at White Sands. 70% at Los Alamos Laboratory. **Saros 145:** returns to the US in 1963 and 2017. Crosses USSR in 1981 and is the incredible last eclipse of the 20th century on 8-11-1999, which crosses Hitler's Birthplace and Ninevah. Scheduled to cross Beijing, Pyongyang and Tokyo on Sep 1 2035.

1951 Sep 1 Jamestown to Angola Ring of Fire (Saros 134) One of many 20th century eclipses with Slave Trade associations. This Ring of Fire eclipse happens 332 years after first slaves brought to English colonial Jamestown on August 20 1619. Path begins in Virginia with annularity in Jamestown and colonial Williamsburg. It crosses the Atlantic to the Slave Coast, including Angola, home to the 20 or so Africans brought on that first slave ship to the British colony. Eclipse crosses Africa and ends in Madagascar almost precisely on capital of Anananarivo. One of only a couple of true "single city" eclipses in our survey that begin on eastern seaboard. Another happens five years later in Boston. **Saros 134:** Aug 21 1933 Jerusalem and Oct 14 2023 USA are some notable eclipses of Saros 134

Jun 30 1954 USA Heartland to Shahrud Iran Total eclipse (Saros 126) begins in Nebraska and ends in Iran, intersecting the path of a total eclipse that occurred 2-25-1952 over the city of Shahrud (The Shahrud Cross) one year after the Shah was re-installed in August 1953 by a US and British backed coup. The path brings totality in Saint Paul, 97% coverage in Hibbing Minnesota for a 13-year-old Bob Dylan, bisects Canada, crosses the Atlantic, dives through Scandinavia into the Iron Curtain of the Eastern USSR (totality in Kiev). Intersects with last total eclipse over city of Shahrud, Iran. Path then goes over Afghanistan, and Pakistan (totality in Quetta) before ending in India. **Saros 126--**USA cross country Jun 8 1918. Spanish judgment Aug 12 2026)

Summary of Eclipses: No crosses. The eclipses seem oddly spaced from each other, 3 of them look like emanations from the nation itself, all beginning at sunrise one right after another between 1945 and 1954. In the next section, the 1959 Eclipse does the same. These occur as the USA enters its most powerful phase of mystery empire building. Look at the Southeast Asia Eclipse Swarm (1948 to 1965) for historical and astronomical reference.



XXI. The 1960's Hepton and JFK Boston Eclipse

1959 Oct 2 Total Eclipse JFK Boston Sunrise Eclipse (Saros 143) The fourth emanation in a row. As if it weren't enough that JFK's birthday and death day appear side by side in the eclipse Metonic during his lifetime, a single city total eclipse occurs over his hometown of Boston while he is running for President. Beginning at sunrise on border of Massachusetts, Vermont and New York, the eclipse crosses the Atlantic and travels to Africa. bringing totality to Senegal and Mali (both of whose Presidents visited Kennedy in the White House, a first for either of those countries). Boston experienced a total solar eclipse for the first time since 1806 (it won't have another until 2200). Kennedy gives a speech that night on the campaign trail in Rochester, New York. Boston is the only major city in America to witness the eclipse. Kennedy is elected President the following year on Nov. 8th, the day after a transit of Mercury was visible across the Sun's face from the western hemisphere. (See personalities section). **Saros 143.** Saros 143 includes 1869 USA total and WWII fall Equinox Eclipse (9-21-1941) over USSR and China. It brings totality to Colombia on Columbus Day Oct 12 1977 and then returns for its last total eclipse on Oct 24 1995--over Vietnam and Southeast Asia.

1963 July 20 Total Eclipse Beginning of the Sixties (Saros 145) 6 years to the day before Apollo 11 astronauts stepped on the moon. 39 days before the famous March on Washington that featured both Martin Luther King (he would die at 39 years old). March also presented a young Bob Dylan, whose song, "Blowin' in the Wind", was climbing the pop charts at the time (the Peter, Paul and Mary version) at number 14. It would eventually reach number 2 on August 14. The Eclipse occurs 125 days before the assassination of John F. Kennedy. It occurs 18 years (minus 17 days) after the twin atomic bombs were dropped by the US on Japan. The eclipse begins in Japan (the island of Hokkaido), bisects new state of Alaska before crossing Canada. It touches the USA only in Maine, with totality in Bangor. Four months after the eclipse, John F. Kennedy would be shot dead in Dallas Texas (35 % coverage). His hometown Boston saw 95 % coverage. 97% totality at Bush family haven of Kennebunkport. Washington DC had 77% coverage. A total lunar eclipse followed JFK assassination 38 days later.

Probably the beginnings of the USA 1960's, as far as cultural and solar eclipse cosmic timekeeping associations go. The first Beatles record released in America happened two days later. It was "Please Please Me". The decade culturally will end 7 eclipse years later with the March 7 1970 USA eclipse.

Saros 145 which appeared at the Atom Bomb eclipse of 1945, Liverpool 1927

Beijing/Pyongyang/Tokyo on Sep 2 2035

Hepton: linked with Saros 139 2422 days apart.. Saros 145 and 139 return for the USA in 2017/2024.

1970 Mar 7 Total Eclipse Eastern Seaboard (Saros 139) Seven eclipse years after the 1963 USA event, the southeastern seaboard of the USA experiences coastal totality. The seaboard was mostly cloudy though Florida remained fair. 93% totality at Cape Canaveral 234 days after men shot from there landed on the moon. Totality at Charleston South Carolina, the greatest slave port in North America (it receives totality again in 2017). 95% totality in Washington D.C., 96% in New York and 97% in Boston. The end of the sixties. The Beatles announced their break-up a month later. 3 months after the infamous Altamont Rolling Stones Concert. 2 months before the Kent State shootings.

Saros 139: returns to America in 2024 Apr 8 with similar path about 1,000 miles to the west.

Hepton: Hepton Cross a few hundred miles offshore of Boston/NYC. Linked with the 1963 eclipse.

300/44: paired with 1670 Apr 19 eclipse which would touch the least amount of USA in this 531-year survey, only the extreme northwestern edge of the Olympic Peninsula, including Mount Olympus.

Summary: Most cultural historians would likely agree that the era we refer to as "the sixties" fits neatly between the two Hepton eclipses of 1963 and 1970. Late 1963 was a turning point in American history with the rise of the counterculture movement, the March on Washington and the murder of JFK. 1970 saw the Hippie Dream collapse almost immediately as the calendar turned. Also, there was probably no more famous politician in the history of the 20th century than John F. Kennedy, so it seems quite remarkable that a solar eclipse in 1959 would pass *only* over his hometown of Boston as he runs for President. All three of these eclipses saw more than 95% totality in Boston and Cape Cod. They also saw similar coverage at Bush family center of Kennebunkport, Maine. We see peculiarity in honest consideration of such eclipses, a peculiarity that points towards meaning, towards story. It knocks at the doors of our perception of reality with songs, questions and suggestions. None of it means anything without humility.



XXII. Brave New World-Mount Saint Helen's and 1984

1979 Feb 26 Mt. St. Helens/Microsoft Total Eclipse (Saros 120)

1984 May 30 Atlanta/ New Orleans/ DC Ring of Fire (Saros 137)

1979 Feb 26 Mt. St. Helens/Microsoft Total Eclipse (Saros 120) The great harbinger of 1979. Jimmy Carter is in the White House. During the coldest winter in a century, eight months before the hostage crisis in Iran, ten months before Soviets invade Afghanistan. America is set to rise again with a new kind of world dominance, defined by the universal machine that thinks. The eclipse occurs seven weeks after Bill Gates and Paul Allen move Microsoft Corporation to Gate's hometown of Bellevue, Washington, 99.6% Totality in Bellevue. The beginning of the technological era, the final era of the American Empire and the creation of the last world Empire. The number one song in America was "Do you think I'm Sexy" by Rod Stewart. The number one non-news show was "Three's Company".

Salem, Oregon is in Totality (it will again be in totality for Aug.21, 2017 USA eclipse, the only major city that has that distinction). Portland has totality. Crosses 5 northwestern states before bisecting Canada (Totality in Winnipeg).

Totality over Mount Saint Helens (122.2 degrees longitude) 388 days before she awoke with an earthquake on Spring Equinox of March 20 1980. Saint Helens explodes to the due north in the direction of Bellevue Washington (97 miles away --122.2 degrees longitude) on May 18 1980 in the largest volcanic eruption in modern North American History.. First eclipse over Saint Helens since Farewell Abraham on Oct 19 1865.

Saros Cycle 120: Again! Saros 120! The last time Saros 120 will touch contiguous USA. It returns to Alaska US for Bering Strait/ 2,000th anniversary of Jesus Crucifixion Eclipse on 3-30-2033.

1984 May 30 Atlanta/ New Orleans/ DC Ring of Fire-Almost Total (Saros 137) An interesting annular eclipse that is about as close as you can get to a hybrid/total. At its Maximum, the sun is 99.77% covered (near Christchurch, Virginia). Atlanta is 99.67% covered. What does this mean? It means that the alignment of sun and moon is almost perfect over the path. The moon is almost exactly 400 times closer to the earth than the sun. They almost perfectly fit in perspective. May 30 1984 is the JFK Birthday Metonic. His actual birthday is May 29 but that's how the Metonic works, sliding around on the hours around a date. He would have still been celebrating his 67th Birthday 12 hours before if he had not been murdered. Ring of Fire begins in Mexico and crosses eastern USA before heading to Africa. Near perfect coverage in Atlanta at Martin Luther King's Home exactly 5900 days after his assassination (and almost exactly 17 eclipse years).

95% coverage in Washington DC, where the Reagan/Bush Presidency was firmly in power. 90% in JFK's birthplace of Brookline, Massachusetts, 80% in Dallas Texas, where he was murdered. 93% in New York City. Direct path in the Deep South includes New Orleans (the last of its astonishing 7 eclipses in 500 years, birthplace of Lee Harvey Oswald and site of the Jim Garrison JFK conspiracy trial),

The eclipse crosses the ocean and enters Africa over Casablanca ("white house") and Marrakesh (Land of God) and ends in desert of the Sahara in Algeria. The last year of JFK birthday/Death Day Metonic conjunction which began with May 28/ Nov 22 in 1900. The next eclipse on earth after this amazing annular occurs on Nov 22 1984 (the 21st anniversary of his murder) over the site of his famous PT-109 heroics in the Solomon Islands of New Guinea.

Saros 137: Saros 137 brought the Titanic Eclipse of 1912, the San Francisco Hybrid of 1930, the Korean War eclipse of 1948, 137 returns for the 2020 Father's Day Solstice Pandemic Ring of Fire.



XIII. LA and Cross-Country Rings of Fire 1992 and 1994

1992 Jan 4 California Sunset (Saros 141)

1994 May 10 Cross Country Ring of Fire (Saros 128)

LA and Cross-Country Rings of Fire 1992 and 1994

1992 Jan 4 California LA Metropolis Sunset (Saros 141) The Saros responsible for bringing the longest duration eclipses of the last thousand years ends its millennium with a path over open Pacific ocean until ending at the metropolises of Los Angeles and San Diego/Tijuana at sunset. San Diego had a good view. Clouds obscured the eclipse in Los Angeles.

It had been nine days since the Soviet Union officially dissolved. George HW Bush will be President for one more year. It is the 500th year since Columbus in 1492 sailed the ocean blue. Southern California's Michael Jackson had the number one song with "Black or White". Nirvana's "Smells like Teen Spirit" was number 13.

Martin Luther King would have been 63 solar years plus one lunar year old at the time of eclipse if he hadn't been murdered. The worst riots in California history break out in Los Angeles 114 days after the eclipse (April 29-also a Metonic date) following the acquittal of police officers involved in the beating of motorist Rodney King. 64 people died and more than 2300 were injured in the violence.

Located at the very eastern extension of the eclipse path was Landers, California. On June 28, 1992, 60 days after the riots and 174 days after the eclipse, an Earthquake in the Mojave desert near Landers registered 7.3 on the Richter Scale. It was the largest earthquake to hit California in 40 years but damage was limited because of its remote location. 3 people were killed and 400 injured in the quake.

Single City: Southern California was the only land touched on a 10,000-mile path across the ocean. It was one of the longest eclipses of the last millennium at 11 minutes and 41 seconds near its mid-ocean maximum. Note 11:41 number peculiarity with Saros 141.

Saros 141: One of the greats. 1865 Farewell Abraham, 1919 JFK Premonition Texas Eclipse. Longest eclipse of the millennium (12 minutes and 9 seconds) in 1955 over Southeast Asia. Its final eclipse to last over 10 minutes occurs January 26 2028 -part of the upcoming Spanish Swarm.

1994 May 10 Cross Country Ring of Fire (Saros 128) 856 days after the Southern California Sunset ring of Fire. a cross-country annular eclipse starts in the Pacific, bisects Baja and the Sonoran Desert before crossing the heartland of the United States and exiting over the Bush family haven of Kennebunkport, Maine. Serial killer John Wayne Gacy is executed just after midnight on this day in Joliet Illinois, which borders total annularity. Barrack Obama is working in Chicago with 89% coverage.

Annularity in many cities, including El Paso, Amarillo, Lubbock, Tulsa, Joplin, Detroit, Springfield, Cleveland, Buffalo, Albany, and much of Maine. The USA ring of fire crosses the Atlantic and ends just after going over Casablanca ("white house") Morocco.

George W. Bush wins the Texas State Governorship 6 months after eclipse. Path goes by his childhood home of Midland with 87% coverage. His ranch at Crawford has 80% coverage. Austin has 77%. Bush center Kennebunkport, Maine is in path of full Annularity. George W. Bush birthplace of New Haven Connecticut sees 85% and Washington DC sees 80%. 6 years later he would be running for President.

This is the last complete eclipse in the USA for 18 years and 11 days until May 20 2012 Columbus Death Day Ring of Fire, which is also Saros 128. Remarkably, that eclipse *ends at Midland*. This 18 year stretch between eclipses (1994 to 2012) is the first time since 1854 that the US goes more than ten years without an eclipse.



2012 May 20 Hanoi Sunrise/Midland Sunset Ring of Fire (Saros 128)

I have this one eclipse sort of sitting by itself. It was 2012, and it had been eighteen years since the USA had a complete eclipse (back in 1994). A lot went on in those 18 years, to say the least. For one thing we went from landlines to facephones. I went from digging ditches to ...well, digging ditches and liking it better. But I'm sure that's not all that happened between 1994 and 2012.

This eclipse doesn't really fit in with the next trio of eclipses that show up five years later in 2017. They are of different times. This 2012 one, its different. My family and I watched this eclipse riding horses in the high desert, The pinon and juniper trees make little crescents on the ground out of the sunlight. We were a little too north for annularity, but it was still a deep partial (maybe 80%) It was the first one I'd seen since I was a kid when I watched the Feb 26 1979 in Oklahoma, also deep partial.

Yeah, this 2012 one is by itself. Not only because it's a nice memory, but because it travels from sunrise in Hanoi Vietnam to sunset in Midland Texas. It travels that route on Columbus's death day too.

2012 May 20 Hanoi to Four Corners Ring of Fire/ Midland Sunset (Saros 128)

Spanning the gulf between the East and the West. Saros 128 last visited the US in 1994. It now returns with its ring of fire to end at the boyhood home of George W. Bush three years after he left the office of President. Path begins at sunrise just east of Hanoi, Vietnam.

China gets its 3rd eclipse in 4 years, Annularity in Taipei, Taiwan and Tokyo, Japan. Path crosses Pacific and enters Northern California.

It crosses Mount Shasta, Reno, and Zion National Park in Utah. Much of the Navajo Indian reservation (including 3 of 4 of their sacred corner mountains-- San Francisco Peaks, Navajo Mtn, and Mount Taylor in New Mexico). All of the Hopi Mesas are in annularity as well as many other Pueblo tribes. Annularity over the Four Corners cross for the first true time in this 500-year survey. A ring of fire will perfectly cross it again in 2023, 12 eclipse years later. Chaco Canyon, Santa Fe, Los Alamos and Albuquerque are in both paths. Goes just north of White Sands Atom Bomb Site (87%) ...Annularity over Roswell, which is almost certainly home to real live space aliens (or so I've heard)!!

The path enters West Texas and reaches George W. Bush boyhood home of Midland at sunset, stopping shy of Abilene. 2012 is 10 years since US forces occupied the Middle East under his Presidency and 21 years since they did so under his father's Presidency.

Columbus died in Spain on 5-20-1506, exactly 506 years prior to the eclipse. Tradition claims his last words were "*Father, into thy hands I commit my Spirit*", also the last words of Jesus Christ. 2012 is the 520th anniversary of his discovery of America...thus, the 506 and 520 numeric are in peculiar juxtaposition in 5-20-1506 and 5-20-2012 506 years later. Numbers are just funny, sometimes.

The 500th anniversary of the Mayan/Aztec Apocalypse Eclipse of 1496 occurred in 1996, the same year there was a Columbus Day partial Eclipse visible from North America on October 12th. These sorts of fractal oddities appear in lots of directions when one considers eclipses.

If you remember, The Mayan calendar also supposedly ended on 12- 21-2012, which is yet another peculiar set of reflective numbers.

On the day of the May 20 2012 eclipse, President Obama hosts the NATO Summit in Chicago, Illinois It was the last NATO summit held in the USA. Chicago has 49% coverage at sunset.

The US eclipses of 2017 to 2024 are considered in the 2017 to 2034 section.