Why did the ancient Mayan or pre-Maya choose December 21st, 2012 A.D., as the end of their Long Count calendar? This article will cover some recent research. Scholars have known for decades that the 13-baktun cycle of the Mayan "Long Count" system of timekeeping was set to end precisely on a winter solstice, and that this system was put in place some 2300 years ago. This amazing fact - that ancient Mesoamerican skywatchers were able to pinpoint a winter solstice far off into the future - has not been dealt with by Mayanists. And why did they choose the year 2012? One immediately gets the impression that there is a very strange mystery to be confronted here. I will be building upon a clue to this mystery reported by epigrapher Linda Schele in Maya Cosmos (1994). This article is the natural culmination of the research relating to the Mayan Long Count and the precession of the equinoxes that I explored in my recent book Tzolkin: Visionary Perspectives and Calendar Studies (Borderlands Science and Research Foundation, 1994).

The Mayan Long Count

Just some basics to get us started. The Maya were adept skywatchers. Their Classic Period is thought to have lasted from 200 A.D. to 900 A.D., but recent archeological findings are pushing back the dawn of Mayan civilization in Mesoamerica. Large ruin sites indicating high culture with distinctly Mayan antecedents are being found in the jungles of Guatemala dating back to before the common era. And even before this, the Olmec civilization flourished and developed the sacred count of 260 days known as the tzolkin. The early Maya adopted two different time keeping systems, the "Short Count" and the Long Count. The Short Count derives from combining the tzolkin cycle with the solar year and the Venus cycle of 584 days. In this way, "short" periods of 13, 52 and 104 years are generated. Unfortunately, we won't have occasion to dwell on the properties of the so-called Short Count system here. The Long Count system is somewhat more abstract, yet is also related to certain astronomical cycles. It is based upon nested cycles of days multiplied at each level by that key Mayan number, twenty:

<table>
<thead>
<tr>
<th>Number of Days / Term</th>
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<tbody>
<tr>
<td>1 / Kin (day)</td>
</tr>
<tr>
<td>20 / Uinal</td>
</tr>
<tr>
<td>360 / Tun</td>
</tr>
<tr>
<td>7200 / Katun</td>
</tr>
<tr>
<td>144000 / Baktun</td>
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Notice that the only exception to multiplying by twenty is at the tun level, where the uinal period is instead multiplied by 18 to make the 360-day tun. The Maya employed this counting system to track an unbroken sequence of days from the time it was inaugurated. The Mayan scholar Munro Edmonson believes that the Long Count was put in place around 355 B.C. This may be so, but the oldest Long Count date as yet found corresponds to 32 B.C. We find Long Count dates in the archeological record beginning with the baktun place value and separated by dots. For example: 6.19.19.0.0 equals 6 baktuns, 19 katuns, 19 tuns, 0 uinals and 0 days. Each baktun has 144000 days, each katun has 7200 days, and so on. If we add up all the values we find that 6.19.19.0.0 indicates a total of 1007640 days have elapsed since the Zero Date of 0.0.0.0.0. The much discussed 13-baktun cycle is completed 1872000 days (13 baktuns) after 0.0.0.0.0. This period of time is the so called Mayan "Great Cycle" of the Long Count and equals 5125.36 years.

But how are we to relate this to a time frame we can understand? How does this Long Count relate to our Gregorian calendar? This problem of correlating Mayan time with "western" time has occupied Mayan scholars since the beginning. The standard question to answer became: what does 0.0.0.0.0 (the Long Count "beginning" point) equal in the Gregorian calendar? When this question is answered, archeological inscriptions can be put into their proper historical context and the end date of the 13-baktun cycle can be calculated. After years of considering data from varied fields such as astronomy, ethnography, archeology and iconography, J. Eric S. Thompson determined that 0.0.0.0.0 corresponded to the Julian date 584283, which equals August 11th, 3114 B.C. in our Gregorian calendar. This means that the end date of 13.0.0.0.0, some 5125 years later, is December 21st, 2012 A.D.

The relationship between the Long Count and Short Count has always been internally consistent (both were tracked alongside each other in an unbroken sequence since their conception). Now it is very interesting to note that an aspect of the "Short Count", namely, the sacred tzolkin count of 260 days, is still being followed in the highlands of Guatemala. As the Mayan scholar Munro Edmonson shows in The Book of the Year, this last surviving flicker of a calendar tradition some 3000 years old supports the Thompson correlation of 584283. Edmonson also states that the Long Count was begun by the Maya or pre-Maya around 355 B.C., but there is reason to believe that the Long Count system was being perfected for at least 200 years prior to that date.

The point of interest for these early astronomers seems to have been the projected end date in 2012 A.D., rather than the beginning date in 3114 B.C. Having determined the end date in 2012 (for reasons we will come to shortly), and calling it 13.0.0.0.0, they thus proclaimed themselves to be living in the 6th baktun of the Great Cycle. The later Maya certainly attributed much mythological significance to the beginning date, relating it to the birth of their deities, but it now seems certain that the placement of the Long Count hinges upon its calculated end point. Why did early Mesoamerican skywatchers pick a date some 2300 years into the future and, in fact, how did they pinpoint an accurate winter solstice? With all these considerations one begins to suspect that, for some reason, the ancient New World astronomers were tracking precession.
The Precession

The precession of the equinoxes, also known as the Platonic Year, is caused by the slow wobbling of the earth's polar axis. Right now this axis roughly points to Polaris, the "Pole Star," but this changes slowly over long periods of time. The earth's wobble causes the position of the seasonal quarters to slowly precess against the background of stars. For example, right now, the winter solstice position is in the constellation of Sagittarius. But 2000 years ago it was in Capricorn. Since then, it has precessed backward almost one full sign. It is generally thought that the Greek astronomer Hipparchus was the first to discover precession around 128 B.C. Yet scholarship indicates that more ancient Old World cultures such as the Egyptians (see Schwaller de Lubicz's book Sacred Science) and Babylonians also knew about the precession.

I have concluded that even cultures with simple horizon astronomy and oral records passed down for a hundred years or so, would notice the slow shifting of the heavens. For example, imagine that you lived in an environment suited for accurately demarcated horizon astronomy. Even if this wasn't the case, you might erect monoliths to sight the horizon position of, most likely, the dawning winter solstice sun. This position in relation to background stars could be accurately preserved in oral verse or wisdom teachings, to be passed down for centuries. Since precession will change this position at the rate of 1 degree every 72 years, within the relatively short time of 100 years or so, a noticeable change will have occurred. The point of this is simple. To early cultures attuned to the subtle movements of the sky, precession would not have been hard to notice.

The Maya are not generally credited with knowing about the precession of the equinoxes. But considering everything else we know about the amazing sophistication of Mesoamerican astronomy, can we realistically continue to deny them this? Many of the as yet undeciphered hieroglyphs may ultimately describe precessional myths. Furthermore, as I show in my book Tzolkin: Visionary Perspectives and Calendar Studies, the Long Count is perfectly suited for predicting future seasonal quarters, indefinitely, and precession is automatically accounted for. Some of the most incredible aspects of Mayan cosmo-conception are just now being discovered. As was the case with the state of Egyptology in the 1870's, we still have a lot to learn. In addition, Mayanists like Gordon Brotherston (The Book of the Fourth World) consider precessional knowledge among Mesoamerican cultures to be more than likely.

The Sacred Tree

We are still trying to answer these questions: What is so important about the winter solstice of 2012 and, exactly how were calculations made so accurately, considering that precession should make them exceedingly difficult?

If we make a standard horoscope chart for December 21st, 2012 A.D., nothing very unusual appears. In this way I was led astray in my search until Linda Schele provided a clue in the recent book Maya Cosmos. Probably the most exciting breakthrough in this book is her identification of the astronomical meaning of the Mayan Sacred Tree.
Drawing from an impressive amount of iconographic evidence, and generously sharing the process by which she arrived at her discovery, the Sacred Tree is found to be none other than the crossing point of the ecliptic with the band of the Milky Way. Indeed, the Milky Way seems to have played an important role in Mayan imagery. For example, an incised bone from 8th century Tikal depicts a long sinking canoe containing various deities. This is a picture of the night sky and the canoe is the Milky Way, sinking below the horizon as the night progresses, and carrying with it deities representing the nearby constellations. The incredible Mayan site of Palenque is filled with Sacred Tree motifs and references to astronomical events. In their book Forest of Kings, Schele and Freidel suggested that the Sacred Tree referred to the ecliptic. Apparently that was only part of the picture, for the Sacred Tree that Pacal ascends in death is more than just the ecliptic, it is the sacred doorway to the underworld. The crossing point of Milky Way and ecliptic is this doorway and represents the sacred source and origin. In the following diagram of the well known sarcophagus carving, notice that the Milky Way tree serves as an extension of Pacal's umbilicus. The umbilicus is a human being's entrance into life, and entrance into death as well:
We may also remember at this point that the tzolkin calendar is said to spring from the Sacred Tree. The Sacred Tree is, in fact, at the center of the entire corpus of Mayan Creation Myths. We should definitely explore the nature of this astronomical feature.

The first question that came up for me was as follows. Since Lord (Ahau) Pacal is, by way of divine kingship, equated with the sun, and he is portrayed "entering" the Sacred Tree on his famous sarcophagus lid, on what day does the sun come around to conjunct the crossing point of ecliptic and Milky Way? This would be an important date. In the pre-dawn skies of this date, the Milky Way would be seen to arch overhead from the
region of Polaris (Heart of Sky) and would point right at where the sun rises. This (and the corollary date 6 months later) is the only date when the Sun/Lord could jump from the ecliptic track and travel the Milky Way up and around the vault of heaven to the region of Polaris, there to enter the "Heart of Sky." It should be mentioned that 1300 years ago, during the zenith of Palenque's glory, Polaris was much less an exact "Pole Star" than it is now. Schele demonstrates that it wasn't a Pole Star that the Maya mythologized in this regard, it was the unmarked polar "dark region" symbolizing death and the underworld around which everything was observed to revolve. Life revolves around death - a characteristically Mayan belief. The dates on which the sun conjuncts the "Sacred Tree" are thus very important. These dates will change with precession. Schele doesn't pursue this line of reasoning, however, and doesn't even mention that these dates might be significant. If we go back to 755 A.D., we find that the sun conjuncts the Sacred Tree on December 3rd. I should point out here that the Milky Way is a wide band, and perhaps a 10-day range of dates should be considered.

To start with, however, I use the exact center of the Milky Way band that one finds on star charts, known as the "Galactic Equator" (not to be confused with Galactic Center). Where the Galactic Equator crosses the ecliptic in Sagittarius just happens to be where the dark rift in the Milky Way begins. This is a dark bifurcation in the Milky Way caused by interstellar dust clouds. To observers on earth, it appears as a dark road which begins near the ecliptic and stretches along the Milky Way up towards Polaris. The Maya today are quite aware of this feature; the Quiché Maya call it xibalba be (the "road to Xibalba") and the Chorti Maya call it the "camino de Santiago". In Dennis Tedlock's translation of the Popol Vuh, we find that the ancient Maya called it the "Black Road". The Hero Twins Hunahpu and Xbalanque must journey down this road to battle the Lords of Xibalba. (Tedlock 334, 358). Furthermore, what Schele has identified as the Sacred Tree was known to the ancient Quiché simply as "Crossroads."

This celestial feature was not marginal in ancient Mayan thought and is still recognized even today. In terms of how this feature was mythologized, it seems that when a planet, the sun, or the moon entered the dark cleft of the Milky Way in Sagittarius (which happens to be the exact center of the Milky Way, the Galactic Equator), entrance to the underworld road was possible, which could then take the journeyer up to the Heart of Sky. Shamanic vision rites were probably involved in this scenario. In the Yucatan, underground caves were ritual places used by shaman to journey to the underworld. Schele explains that "Mayan mythology identifies the Road to Xibalba as going through a cave" (Forest of Kings, 209). Here we have a metaphorical reference to the "dark rift" in the Milky Way by way of its terrestrial counterpart, a syncretism between earth and sky which is characteristic of Mayan thinking. Above all, what is becoming apparent from the corpus of Mayan Creation Myths is that creation seems to have taken place at a celestial crossroads - the crossing point of ecliptic and Milky Way.

To clarify this ever growing picture, we should stop here and plot out some charts. In addition to the detailed star maps from Norton's 2000.0 Star Atlas which allowed me to pinpoint the crossing point of Galactic Equator and ecliptic, I use EZCosmos to plot these positions3. What I found answers the question of why the Maya chose the winter solstice
of 2012, a problem seemingly avoided by astronomers and Mayanists alike. While it is true that the sun conjuncts the Sacred Tree on December 3rd in the year 755 A.D., over the centuries precession has caused the conjunction date to approach the winter solstice. So, how close are we to perfect conjunction today? Exactly when might we expect the winter solstice sun to conjunct the crossing point of Galactic Equator and ecliptic - the Mayan Sacred Tree? Any astronomer will tell you that, presently, the Milky Way crosses the ecliptic through the constellation of Sagittarius and this area is rich in nebulae and high density objects. In fact, where the Milky Way crosses the ecliptic in Sagittarius also happens to be the direction of the Galactic Center.4

The Charts

So the quest returns to identifying why December 21st, 2012 A.D. might represent some kind of astronomical anomaly. I'll get right to the heart of the matter. Let's look at a few charts.

![Chart 1.](image)

Here is a full view of the sky at noon on December 21st, 2012 A.D. The band of the Milky Way can be seen stretching from the lower right to the upper left. The more or less vertical dotted line indicates the Galactic Equator. The planets can be seen tracing a roughly horizontal path through the chart, indicating the ecliptic. The sun, quite strikingly, is dead center in the Sacred Tree. Let's look closer.
The field is now reduced from a horizon-to-horizon view to a field of 30 degrees. Part of the constellation of Sagittarius can be seen in the lower left portion of the chart. The planet in the middle-to-upper left portion of the chart is Pluto, which rarely travels directly along the ecliptic. The center square near the sun is placed on the Trifid Nebula (M20). According to the star chart I used, this nebula is very close to the crossing point of Galactic Equator and ecliptic. However, a small star (4 Sgr) is even closer; it sits right on the Galactic Equator and its declination is only 00.08' below the ecliptic. Let's look closer at these features.

The field is now reduced to a 5-degree span, what astrology considers to be within conjunction. The dot to the lower right of the sun is the star 4 Sgr. Amazingly, the Sun is right on target. We couldn't have hoped for a closer conjunction. 1 day before or after will remove the sun a noticeable distance from the crossing point. December 21st, 2012 (13.0.0.0.0 in the Long Count) therefore represents an extremely close conjunction of the winter solstice sun with the crossing point of Galactic Equator and the ecliptic, what the ancient Maya recognized as the Sacred Tree. It is critical to understand that the winter
solstice sun rarely conjuncts the Sacred Tree. In fact, this is an event that has been coming to resonance very slowly over thousands and thousands of years. What this might mean astrologically, how this might effect the "energy weather" on earth, must be treated as a separate topic.

But I should at least mention in passing that this celestial convergence appears to parallel the accelerating pace of human civilization. It should be noted that because precession is a very slow process, similar astronomical alignments will be evident on the winter solstice dates within perhaps 5 years on either side of 2012. However, the accuracy of the conjunction of 2012 is quite astounding, beyond anything deemed calculable by the ancient Maya, and serves well to represent the perfect mid-point of the process.

Let's go back to the dawn of the Long Count and try to reconstruct what may have been happening.

**Why: Winter Solstice Sun Conjuncts The Sacred Tree in 2012 A.D.**

First, the tzolkin count originated among the Olmec at least as early as 679 B.C. (see Edmonson's Book of the Year). We may suspect that astronomical observations were being made from at least that point. The tzolkin count has been followed unbroken since at least that time, up to the present day, demonstrating the high premium placed by the Maya upon continuity of tradition. In this way, star records, horizon positions of the winter solstice sun, and other pertinent observations could also have been accurately preserved. As suggested above, precession can be noticed by way of even simple horizon astronomy in as little time as 100 to 150 years. (Hipparchus, the alleged "discoverer" of precession among the Greeks, compared his own observations with data collected only 170 years before his time.) Following Edmonson, the Long Count system may have appeared as early as 355 B.C. Part of the reason for implementing the Long Count system, as I will show, was probably to calculate future winter solstice dates.

We must assume that even at this early point in Mesoamerican history, the crossing point of ecliptic and Milky Way was understood as the "Sacred Tree". Since the Sacred Tree concept is intrinsically tied into the oldest Mayan Creation Myths, this is not improbable. At the very least, the "dark rift" was already a recognized feature. Early skywatchers of this era (355 B.C.) would then observe the sun to conjunct the dark ridge in the Milky Way on or around November 18th.5 This would be easily observed in the pre-dawn sky as described above: the Milky Way points to the rising sun on this date.

Over a relatively short period of time, as an awareness of precession was emerging, this date was seen to slowly approach winter solstice, a critical date in its own right in early Mayan cosmo-conception. At this point, precession and the rate of precession was calculated, the Long Count was perfected and inaugurated, and the appropriate winter solstice date in 2012 A.D. was found via the Long Count in the following way.

**How: Long Count and Seasonal Quarters**
Long Count katun beginnings will conjunct sequential seasonal quarters every 1.7.0.0.0 days (194400 days). This is an easily tracked Long Count interval. Starting with the katun beginning of 650 B.C.:

<table>
<thead>
<tr>
<th>Long Count Which Quarter? Year</th>
</tr>
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<tbody>
<tr>
<td>6.5.0.0.0 Fall 650 B.C.</td>
</tr>
<tr>
<td>7.12.0.0.0 Winter 118 B.C.</td>
</tr>
<tr>
<td>8.19.0.0.0 Spring 416 A.D.</td>
</tr>
<tr>
<td>10.6.0.0.0 Summer 948 A.D.</td>
</tr>
<tr>
<td>11.13.0.0.0 Fall 1480 A.D.</td>
</tr>
<tr>
<td>13.0.0.0.0 Winter 2012 A.D.</td>
</tr>
</tbody>
</table>

Note that the last date is not only a katun beginning, but a baktun beginning as well. It is, indeed, the end date of 2012.

The Long Count may have been officially inaugurated on a specific date in 355 B.C., as Edmonson suggests, but it must have been formulated, tried, tested, and proven before this date. This may well have taken centuries, and the process no doubt paralleled (and was perhaps instigated by) the discovery of precession. The Long Count system automatically accounts for precession in its ability to calculate future seasonal quarters - a property which shouldn't be underestimated.

Summary

This has been my attempt to fill a vacuum in Mayan Studies, an answer to the why and how of the end date of the 13-baktun cycle of the Mayan Long Count. The solution requires a shift in how we think about the astronomy of the Long Count end date. The strange fact that it occurs on a winter solstice immediately points us to possible astronomical reasons, but they are not obvious. We also shouldn't forget the often mentioned fact that the 13-baktun cycle of some 5125 years is roughly 1/5th of a precessional cycle. This in itself should have been suggestive of a deeper mystery very early on. Only with the recent identification of the astronomical nature of the Sacred Tree has the puzzle revealed its fullness. And once again we are amazed at the sophistication and vision of the ancient New World astronomers, the decendants of whom still count the days and watch the skies in the remote outbacks of Guatemala.

This essay is not contrived upon sketchy evidence. It basically rests upon two facts:

1) the well known end date of the 13-baktun cycle of the Mayan Long Count, which is December 21st, 2012 A.D. and
2) the astronomical situation on that day. Based upon these two facts alone, the creators of the Long Count knew about and calculated the rate of precession over 2300 years ago. I can conceive of no other conclusion. To explain this away as "coincidence" would only obscure the issue.

For early Mesoamerican skywatchers, the slow approach of the winter solstice sun to the Sacred Tree was seen as a critical process, the culmination of which was surely worthy of being called 13.0.0.0.0, the end of a World Age. The channel would then be open through the winter solstice doorway, up the Sacred Tree, the Xibalba, to the center of the churning heavens, the Heart of Sky.

Notes:

1 Linda Schele and David Freidel, unlike most Mayanists, continue to support the work of Floyd Lounsbury in promoting the 584285 correlation. This is 2 days off from the Thompson correlation that I use. The decisive factor in supporting the Thompson correlation of 584283 is the fact that it corresponds with the tzolkin count still followed in the highlands of Guatemala. To account for this discrepancy in his correlation, Lounsbury claims that the count was shifted back two days sometime before the conquest (not likely), thus explaining its present placement. This means that either correlation will give the December 21st end date. Nevertheless, Schele and Freidel still report that the end date is December 23rd, 2012 rather than Dec. 21st, an unfortunate faux pas understandable only because they aren't particularly interested in the specifics of the correlation debate. For a detailed discussion of this topic, refer to my book Tzolkin: Visionary Perspectives and Calendar Studies.

2 Case in point is the mysterious existence of myths obviously describing precession in the ancient verses of the Kalevala, the Finnish National Epic. These myths were relayed from the earliest times by way of singers. Many of these stories are thoroughly magical and are filled with sky lore. The Finnish language is not of Indo-European origin and up until the late 19th century peasants in Finland and northwestern Russia had little contact with Europe. Indeed, their heritage suggests more contact with Central Asia than Europe. Some of the Kalevala stories describe a sacred Mill called the Sampo (derived from sanskrit Skambha = pillar or pole) with a "many ciphered cover". This spinning Mill is a metaphor for a Golden Age of plenty and the starry sky spinning around the Pole Star (known as the Nail of the North), which in the Far North is almost straight over head. The Mill at some point is disturbed, its pillar being pulled out of its peg, and a new one - a new "age" - must be constructed. This becomes the chore of Ilmarinen, the primeval smith. In this legend, ancient knowledge of precession among unsophisticated "peasants" who were nonetheless astute skywatchers, was preserved via oral tradition almost down to modern times.

3 EZCosmos is a graphic software package that can accurately plot and animate the positions of planets, stars, nebula and so on, for 14,000 years. It is well suited to this research because it accounts for precession in its positional calculations. It also happens
to be the software that Linda Schele used to discover the astronomical meaning of the Mayan Sacred Tree.

4 Here we briefly converge with the ideas of Terence McKenna. In the book he co-authored with his brother Dennis (Invisible Landscape, Seabury Press 1975 and Harper San Francisco, 1993), Terence suggests that the position of winter solstice sun within 3 degrees of the Galactic Center in the year 2012 A.D. (a "once-in-a-precessional-cycle" event) may provide the eschatological end point for his theory of time known as Timewave Zero. His end date was chosen for historical reasons and was, apparently, only later discovered to correspond with the Mayan end date. The McKennas point out that this unusual astronomical situation has been noted by other writers, namely, Giorgio de Santillana and Hertha von Dechend in Hamlet's Mill (1969). As ACS Publication's The American Ephemeris for the 21st Century shows, in the year 2012 the Galactic Center is at 27 Sagittarius (within 3 of winter solstice). Thus McKenna demonstrates that on winter solstice of 2012, Galactic Center will be rising heliacally just before dawn, in a way reminiscent of how the Maya observed Venus's last morningstar appearance.

5 This basically follows the "1 degree every 72 years" rule of precession. In this way, back in 3114 B.C. the sun conjuncted the Sacred Tree on Oct 10th, which is 72 degrees, or 1/5th of the ecliptic from the winter solstice. The Fall Equinox sun conjuncted the Sacred Tree about 6400 years ago (1/4th of a precessional cycle). Ancient cultures in Mesopotamia may have recognized this alignment, and called it a Golden Age. The fall from this state of alignment may be responsible for the original Fall from Paradise myth, which filtered out to the Judaic tradition.

6 The Long Count has other strange astronomical properties. For instance, the 13-katun cycle of 256 years was known to the Yucatec Maya as a prophecy cycle. We see it used in the Books of Chilam Balam. The astronomical reference here is to conjunction cycles of Uranus and Pluto, two of which equal 256 years. From another angle, 3 katuns equal exactly 37 synodical cycles of Venus.

Sources:


1985

Author's Biographical Information:

John Major Jenkins (March 4th, 1964, 9:19 p.m., Chicago) is a student of Mayan time. On several trips to Central America in the late 80's, he worked and lived with the Quiché and Tzutujil Maya in Guatemala. Observations gathered on these trips were published in Chicago area newspapers. Since then he has devoted his time to studying Mayan cosmocnception and the mathematical and philosophical properties of the sacred calendar. More thought provoking ideas can be found in his recent book Tzolkin: Visionary Perspectives and Calendar Studies (Borderlands Science and Research Foundation, 1994). Additional information on the Mayan end date alignment is available by writing the author at Four Ahau Press: P.O. Box 3; Boulder, CO 60306. Four Ahau Web Site

Go Hyperborea.
McKenna home page
The calendar used by the ancient Maya civilisation does not predict the end of the world in December 2012 as some believe, according to experts. A new reading of a Maya tablet mentioning the 2012 date suggests that it refers to the end of an era in the calendar, and not an apocalypse. The date was "a reflection of the day of creation", Mayan codes researcher Sven Gronemeyer told AP. The day also marked the return of a Maya god, Mr Gronemeyer added. Bolon Yokte, the god of creation and war, was expected to return, according to Mr Gronemeyer's reading of a Mayan text carved into s