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The Lunar Series in Classic Maya Inscriptions: New Observation and Interpretations

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As Aveni (1980:67) has proposed, it is perhaps the comparison of the complicated and apparently aberrant motion of the moon to the simpler annual cycle of the sun that, itself, led early peoples, including the Maya, to devote so much energy to observation and recording heavenly movements. We all know from direct observation that the moon has a fundamental period; this is called a "lunar" or "synodic month," defined as the interval between successive full moons (a month relative to the position of the sun [Aveni 1980:72]). Today the lunar month is counted from "new moon," when the moon is in conjunction with the sun and lost from view for two or three days. Since an observer cannot see the moon as it moves in front of the sun (except during an eclipse), "new moon" must be calculated from a model of lunar movement; it is

in the middle of the period of darkness. Within one or two days, the moon moves far enough from the sun to be briefly visible as a crescent before it follows the setting sun below the horizon. Each day, thereafter, the crescent becomes a little larger, rises a little higher, and stays longer in the sky, until on the seventh day it has waxed (or filled) until we see it half-full and at its highest point in the sky. This phase is called the first quarter. It continues to fill until it rises opposite the sunset as the full moon on the 15th day. During the remaining half of the month, the moon grows smaller, waning through the last quarter, until as a very slight crescent it disappears beneath the horizon just after sunset on the 28th or 29th day. After two or three days of darkness, it rises briefly as a crescent at first appearance to begin its cycle of

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phases anew. Modern astronomers have calculated the precise length of this synodic period, or lunar month, as 29.530588 days.

Counting from the "new moon" is not the only possibility, however. Other likely points are the last night on which the moon is seen before the period of darkness or the first night the crescent is seen after it. The point chosen to be the base of the count seems to have varied from site to site in the Classic period and, therefore, the precise age of the moon was not in agreement throughout the inscriptions.

Epigraphers have been studying the supplementary series for almost a century. Morley (1916) completed the first extensive study of the lunar series. He collected eighty examples, arranged them in a chart with each text placed in a horizontal row and all similar parts compared in vertical columns. Since Morley saw more regularity in the columns to the right of his charts than in those to the left, he assigned alphabetic designations (A-G) going from right to left on the charts. Because of his strange assumption, the alphabetic order of the supplementary series reverses the reading order of the glyphs. Glyphs G and F are read first, Glyph A last. He used X as the designation of a variable glyph that occurred between his Glyph C and D. E. Wyllys Andrews IV (1938) added Glyphs Z and Y to the series as designations for a pair of glyphs Morley had included in the original charts, but not labelled. Andrews retained the reversed alphabetic order so that Z is read before Y. If all components are present, the entire Supplementary Series reads in the following order:

G F Z Y E D C X B A

Glyph G, F, Z, and Y

The first two glyphs of the supplementary series do not concern the moon. Because there are nine variables in the series, Thompson (1929) postulated that Glyphs F and G referred to the Nine Lords of the Night known from Aztec sources. Schele (1991) associated Glyph F with the headband glyph and the name of the Jester God of royal headbands. It now seems fairly clear that Glyph F and G record a series of nine headdresses worn by the patrons of the particular day.

The riddle of glyphs Z and Y has been at least partially solved by Yasugi and Saito (1991). They demonstrated that Z and Y fall into a cycle of seven, although they did not know what the cycle counted.

Glyph E and D (Chart 1)

Morley (1916) first suggested that Glyphs E through D record information about the moon. His suspicion has proven to have been a correct deduction, even though his deduction was based on a misinterpretation of the moon signs appearing in Glyph E and A as ideographic references to the moon. Teeple (1925 and 1930) confirmed Morley's suggestion by comparing two lunar series from the Tablet of the Foliated Cross and Tablet of the Sun at Palenque. He realized that the fourteen days interval between the dates (1.18.5.3.6 and 1.18.5.4.0) also separated the numbers recorded in Glyphs E and D. The Tablet of the Sun had twenty-six with a thirty-day moon recorded, while the Tablet of the Foliated Cross ten. The difference is fourteen days. He deduced correctly that these glyphs E and D record the age of the moon. In fact, since glyph E is simply the number 20, we will simply drop it entirely from lunar series designations for the remainder of this paper.

Independent research by Barbara MacLeod (1990) and Nikolai Grube (circulated in a 1990 letter) identified the various glyphs that follow the number in glyph D have been deciphered as phonetic spellings of the verb *hul*, "arrive." This reading is based on a wide spread substitution pattern in which T740, otherwise known as the "birth frog," substitutes for signs having the value *hu*. The critical text identified by Grube occurs on Yaxchilan Lintel 25. The text, which refers to a conjuring scene, reads *u ch'ul hul tzak*, "holy lancet for conjuring." In this text, *hu* is recorded with T266, a sign that occurs in several other contexts where a *hu* value is expected. For instance, Grube identified a wide-spread war verb that reads *hubty*, "was downed," as a reference to a captive or his battle banner. The same sign occurs as a phonetic complement for the God N/"pyramid" dedication verb that Barbara MacLeod (1990) independently deciphered as the verb *huy* and *hoy* for "to bless" and "to circumambulate." In her argument, MacLeod also identified T45 as the syllabic sign *hu*.

On Yaxchilan Lintel 42, in a passage exactly parallel to that on Lintel 25, the "birth frog" substitutes for the *hu* part of the *hul* collocation. Because of these and other substitution contexts, Grube proposed that the T740 "birth frog," T45, and T266 are all phonetic *hu*.¹ In the context of glyph D, all of the *hu* signs, T740, T45, T266, are accompanied by one of the phonetic *li* signs. We take these to spell the term *huliy*, "had arrived." We take the other two forms of glyph D, the hand with first finger pointing and the moon sign with an infixed eye to be logographic forms of the same verb. This supposition is supported by text at several sites, including Caracol, Tikal, Copan, Naranjo, Seibal, and many other sites, which use one or the other form to record the arrival of someone at a particular location. This kind of "arrival" is wide spread in the corpus of the Classic period.

In the context of glyph D, we interpret the message to be that it was "so many days after (the moon) arrived." Our investigation of the Maya lunar count suggests that it began either a new moon or two days thereafter. We take this to indicate that some Maya scribes calculated that the moon arrived when it came to the station where an eclipse could occur or that other saw its arrival as the first time they could see it after new moon.

One last variation of glyph D deserves mention. In a limited number of examples, the combination *ni-hi-ya* (#27, 40, 82, 86, 98) occurs between numbers and the *hul* glyph. We observe that these numbers are between ten and nineteen. Since the word for *ten*, which would be used with all these numbers, ends in *n*, *lahun*, we take the *ni* to be a phonetic complement of the number, and the *hi-ya* combination to be a completive suffix for the numbers. In others they records days elapsed.

Other forms of glyph D were used for special circumstances. One form has the T1041 head that reads *ch'u* logographically and *k'u* syllabically (#65, 72-73, 142, 183). This head has vision lines emerging from its eye that enfold a small pellet. A *na* sign sits above the *k'u* to give a possible phonetic spelling *nak'*. In Chorti (Wisdom n.d.) *nak'* is glossed as "pellet, ball, ball-shaped." In sixteenth century Tzotzil (Laughlin 1988:269) *nak'* is "shut up, store" and in Yukatek, Barrera (1980) glossed *nak'* as "fin o cabo."² We suggest that this

variant records the disappearance of the moon on the 26th or 27th day of the lunation.

New moon also had special variant that changed from site to site depending apparently on the inventiveness of the scribe. On Quirigua Stela D (#52), new moon is recorded as *tan sak bak chan*, "in the center of the white bone snake." This snake is the creature that represents the mouth into the Otherworld as on the sarcophagus at Palenque.

On the Palace at Palenque (#74), new moon is recorded as *saty(a) hulihi* (Schele 1991). In Chol and Yukatek, *sat* is a root for "to lose and to die." Attinasi (1973) glosses *sahten* as "gone (moon, new moon)." The main head is the same that functions as the head variant of zero. We suspect this may be logographic *sat*, which appears here with a *sa* phonetic complement and the *ya* completive suffix. *Sat* would then be used as the concept of zero in long counts and distance numbers where the same head appears. Here we believe it reads "lost, dead it had arrived."

Two other monuments use a double hand glyph that was first identified by Schele (1978) in the west panel of the Temple of Inscriptions at Palenque as a glyph for the month *ch'en*. Apparently this double hand sign actually read *ch'en*, "well," because it appears on the Tikal Ballcourt Marker with the number twenty-eight and the head of God A' prime (#171). The twenty-eighth day of a lunation falls in the time of darkness around a new moon. Thompson (1950:236) called attention to the Yukatek phrase for new moon, *benel u tu ch'een*, "moon goes into the well." At Tikal (we have *ch'en* occurring with the twentieth-eighth day of the lunation. We think it records that the moon is in the well with the death god. On Altar 1 of



Naranjo, the center image shows the hole to the Otherworld. Inside sits the *xi* monster that marks the entrance, and God A' occurs in the text that refers to this portal. Thus, at Tikal the moon is with the death god down

the well, while at Quirigua it was in the center of the White-Bone-Snake.

However, we also call to attention the occurrence of the same *ch'en*/God A' combination on Nimli Punit Stela 15 (#100) with a moon age of thirteen days. The death god is apparently registered on the upper hand in the *ch'en* glyph as a *kimi*, "death," sign. The occurrence of this glyph with a moon age of thirteen apparently contradicts our interpretation, except that this day was thirteen days after an eclipse node, which did not produce an eclipse visible in the Maya area. However, thirteen days later a lunar eclipse (penumbral 0.78, umbral -.029) took place between 20:24 and 12:30 that night. The moon did not pass through the umbral shadow of the earth, but it did spend about two hours in the penumbral. This was apparently enough for the scribes of Nimli Punit described this event as the moon falling momentarily into the well.

Glyph C

Glyph C consists of a number in either ordinal or cardinal form combined with a flat hand glyph that records the verbal action. One of several heads may appear above the hand along with a moon sign. Teeple (1930) first recognized that the numbers with C must refer to a series of six lunations, although he and other early researcher could find only the number 2 through 6. In 1978, Schele (1978) identified T4, the sign that usually precedes the form that should be 1C, as phonetic *na* and "first." Glyph C1 is then written *u na*, "first," in the series.

Thompson (1950) identified two heads, a skull and the young moon goddess, occur in the hand. Schele (1985) and Grube (1986) independently recognized that there were three, rather than, two distinct variations. These consist of the head of the young moon goddess, a skull, and the jaguar-eared head of a young male. This last head may occur simply as the eye of the young jaguar moon god. Since these three heads, along with a rabbit, were sometime incorporated into the moon sign, even when it was functioning as a phonetic glyph without reference to the meaning of "moon" at all, we consider them to be a graphic reference to images the ancient Maya saw on the moon. The female is widely recognized as the moon goddess by her many occurrences with a moon sign appended. Nahm and Grube have recognized a similar representation of the male god with an appended moon

sign on a vase, where he sits on a skyband paired with the Moon Goddess. All three variants occur with all numbers--i.e. first to six--of glyph C.

To date no one has proposed a satisfactory explanation of how the Maya scribes chose which these three variants to use with a particular date. To attack this problem, we decided to investigate a sixty-year period between 9.10.19.0.0 and 9.14.0.0.0. Since we regarded zodiacal positions and positions within the eclipse node sequence as possibilities, we began our study by creating a zodiac of one year and plotting the positions of a sequence of eclipse nodes along with moon ages from a series of monuments into this zodiac. We found that the data overlapped too much to make sense, so we copied the zodiac and created a sequence of sixty celestial years.

Using various programs on our computers, we plotted each of the eclipse nodes within this span of time. Then we located within the zodiacal sequence every lunation from this period we could find recorded on a monument. Presuming that they may have been paying more attention to the new moon in choosing a C, we also plotted the corresponding new moon for each of these lunar series. The result was disappointing for we found only random distribution. We detected no co-variation between the recorded moon age or its corresponding new moon to either the zodiac or the patterns of 177/148 eclipse nodes.

However, while we were plotting these positions, Nikolai noticed that the numbers and forms of the Cs fell into a sequence, although it was not one we expected. He noticed, for example, that the same dates from different sites shared the same form of glyph C. Furthermore, in close clusters of dates, the female form of glyph C preceded the male form. We decided to follow these clues by marking off the individual new moons in a sequence of years within our zodiac. To our delight, the lunations Nikolai had noticed fell easily into this new pattern, although, to our surprise, the first C in the sequence of six did not begin with an eclipse node.

Based on this information, we supposed that the Cs were arranged in sequential groups of six with the order, female, young lord, skull, female, young lord, skull, etc. We then marked off the lunar subdivisions in the entire sixty years of our

trial sample and working outward from our base area--9.12.10.5.12. We marked out our hypothetical sequences of six lunations and compared them to the forms of C were had already plotted. The great majority fit perfectly and those that did not seemed either to be the same site or were retrospective projection backward in time. We suspected that local traditions may have used a different tradition, and that errors could have been made in retrospective calculations.

To confirm the pattern we had found, Linda wrote a program in BASIC to calculate the position of any date in this sequence. We later extended the same base to include 190 lunar series. Of these, only 178 have a recoverable date associated with them, and of these 178, twenty-three are too eroded to check for agreement, even though we have the date they are associated with. This leaves 154 that have a date that can be checked against the glyph C as it was recorded.

Agreements	73	
	+ 1 from agreement	13
	-1 from agreement	24
<i>Total</i>	<i>110</i>	

Disagreements	31	
Disagreements in number, but same head		10
Same number with female and male heads		5
<i>Total</i>	<i>46</i>	

Too eroded to read	17	
Has same number, but can't read C		9
<i>Total</i>	<i>26</i>	
Other	1	
<i>Total of examples</i>	<i>183</i>	

Of the sample we tested, sixty-nine were in exact agreement with the system we propose, while another thirty-six had the expected form of C, but with the number one more or less than expected. We suspect this may reflect a different in counting elapsed versus current lunations. Thirty-one were in disagreement, ten had the expected form of C but the wrong number, and five showed a confusion between the male and female heads. Our data shows that the early dates are just as much in agreement with our proposed system as the later dates.

Some of the erroneous dates may have explanations. For example, two of the mythological dates at Palenque are incorrect, but these required long calculations. Furthermore, a number of the disagreements, such as Copan Stela 23, occur with dates that are very difficult to calculate. Some of these differences may disappear in time as better drawings or decipherments of the dates become available.

We find the pattern of agreement or near agreement to be strong enough to propose that the Maya of the Classic period sequenced their glyph Cs through consecutive groups of six lunations in the order of the young moon goddess, the male moon god, and the skull. Moreover since most early lunar series are consistent with the pattern, we believe it developed and spread throughout the Maya region sometime during late cycle 8.

We also found evidence that some scribes used glyph C to record elapsed lunations, while others preferred to record the current lunation. The result is that we find the same date recorded as six female by one scribe and one young lord by another. Our base date, 9.12.10.2.12, calls for a female moon, the number two, and moon age of eighteen days.

Glyph X (Chart 2)

E. Wyllys Andrews IV (1934) first demonstrated that glyph X covaried with glyph C, although he and other researchers after him searched for the pattern of covariance using only two forms of C, instead of the three we now know to exist. Linden (1986) and Escobeda (1992) have also investigated the distribution of X and its relationship to C. We have detected thirteen, possible fourteen forms of X, although some of these may represent different variants of the same X. These variants are distributed as follows:

Young Male

1. The Cosmic Monster belches out a jaguar or a *mi* sign and the ch'ul head variant. This form occurs with C1 and C2, with one aberrant occurrence with C4.

2. Square-nosed dragon with a T628 in its mouth. This occurs with C3 and C4.

3. *Sak-Ok*. This occurs with C5, including one example of with C6 and one with Skull C5.

4. *K'an-Ahaw* (one example of *Mah-K'an-Ahaw*). This occurs with C6, but one example appears with Skull C5.

5. Two rare examples occur at Copan with a head prefixed by a disk with two star (or Venus) signs.

6. One example at Yaxchilan has a single *ma* sign as the X. We believe this example read *ma u ch'ok k'aba*, "nothing is its sprout name." In other words, that lunation did not have a name. This suggests that at least some of the example without Glyph X in the lunar series were nameless moons.

Skull

1. A T565 *ta* sign, combined with T709, the *och* fist, and T712 *ch'am*. This rare X occurs in only three examples, with two falling in C6 and one in C1.

2. The number two or three combined with a *sa* sign, a *witz* mountain sign, and the *k'u* head variant is the second form of Skull X. It occurs with late C6, C1, and C2.

3. A sun, moon, or skull sign combined with crossed legs is the most wide distributed form of Skull X. It occurs principally with C3 and C4, and with one C5.

The Skull form of C5 occurs three times with Xs that usually go with the Young Male Lord and once with the Moon Goddess. Interestingly, all of the aberrant occurrences fall in C5.

Young Female

1. A *na* bauble precedes a *po* sign with a *ch'a* wing attached (probable reading *na-po-ch'*). This X usually occurs with C1, C2, and C3, but there are, in addition, one example with Skull C5 and one with late female C6.

2. Two or three mirror-like signs connected by arches. This X occurs with C2 and C3.

3. *Mi-ku* with the *ku* sign in its head variant form. One variant has an *a* sign preceding the *mik* glyph. The head in this example is also different. This X occurs only with C4.

4. *Itz* or *mol-ku* with the *ku* sign in its head variant form. This form occurs on with C5.

5. *Chan-kab-ku* with the *ku* sign in its head variant form. This X occurs with late C5 and C6.

Forms 4 and 5 may be variants of each other, but their distribution is distinct enough for the moment to keep them as separate categories.

As we shall see, Glyph X is the proper name of each moon. It is determined by the number of C, as Andrews IV first proposed, but it also co-varies with the head that is in C. Thus, Glyph X cycles through the same sequence of eighteen lunations as Glyph C. Its correlation with the forms of C is extremely consistent, so that when the scribe miscalculated C, he almost always used the form of X appropriate to the C he used. We suspect there would have been tables in which X was chosen have C had been calculated.

Glyph B

With one exception, Glyph B never occurs without the presence of Glyph X. This distribution is one of the important clues to its meaning. The most important clue came in the various studies of dedication texts at Copan conducted in 1986 and 1987 by David Stuart, Nikolai Grube, and Linda Schele. Stuart working with Schele identified the proper names of stelae and altars at Copan and Quirigua. Analysis of the patterns in which these proper names showed them to occur in phrases including a verb of dedication, the proper name, a Glyph B variant, and the word for the kind of object that was dedicated.

The glyph B variant was different only in the sign infixed into its arch. In the context of the lunar series, all of the examples have either the T1041 head now known to read *k'ul* "holy" (Ringle 1988) or the rodent bone glyph. Many epigraphers, including Love (1987), Grube and Stuart (1987), and Ringle (1988), contributed clues to the reading of the rodent-bone. Ringle (1988:14) first published its now accepted reading of *ch'ok* with the suggested meanings of "unripe, immature, young child." As a Ch'ol root, *ch'ok* also means "sprout" and by extension, "to be born." The *ch'ok* glyph, like the *k'ul* sign, functions as an adjective for Glyph B. The other two signs that can appear in it are phonetic complements. T501 is *ba*, while the turtle head and turtle beak are both phonetic *a*.

The last two signs confirm the reading suggested independently by Nikolai Grube and Judy Maxwell. Based on the context and the phonetic complements, they proposed that glyph B reads *k'aba*, "name." The entire phrase is *u k'ul k'aba*, "its holy name," or *u ch'ok k'aba*, "its sprout name." The *ba* and *a* phonetic complements are enough to

confirm the suggested reading, but there is one substitution on the Casa Colorado at Chich'en Itza which has *k'aba* spelled phonetically as *k'a-ba*. Glyph B and its variant in dedication phrases translate as "[is] its holy or spouting name."

Glyph A

Teple (1930) first demonstrated that glyph A records whether the moon was 29 or 30 days long. Since the Maya used only whole numbers in their calculations, they faced a problem approximating the actual synodic cycle of 29.530588 days. They addressed this problem by alternating 29-day and 30-day months to yield an average 29.5 days for the length of each lunar month. They kept track of this alternation in Glyph A.

However, a lunar average of 29.5 days accumulates an error of .030588 day every lunation to accumulate an error of +.82 days over six lunations and +15.37 days over thirty-seven (slightly under three years). Thus, in a less than three years, the scribes would have predicted a full moon, while an observer stepping outside his door would find the moon invisible at conjunction. Obviously, a comparison of observation to the predictions generated by the model would soon show that the 29.5-day average could not be used to calculate accurately future or past lunar movements.

The simple alternation of 29-day and 30-day months must, therefore, be broken to allow for more months of 30 days than of 29, in effect, adding a whole day every so often to offset accumulating error. Lounsbury (1978: 775) noted that the best arrangement consists of two 17-month groups followed by one of 15, "each group beginning and ending with a 30-day month, with the alternation thus being broken at the junctures of the groups where two 30-day months come in immediate succession. The resulting ratio is one of 49 lunar months to 1,447 days . . . , which is equivalent to a mean lunation of 29.530612 days," an ideal solution never used by the Maya. Teple (1930) first posited the use of such arrangements, identifying a ratio of 149 lunar months to 4,400 days, equaling an average lunation of 29.530201 days, at Copan and one of 81 moon to 2,392 days, equaling an average of 29.530864 at Palenque. That a modified alternation was actually used is demonstrated, not only by arithmetical calculations, but by a pair of Lunar Series recorded at Palenque. As we dis-

cussed above, the two initial dates in the Tablet of the Foliated Cross and Tablet of the Sun fall on fourteen days apart. The age of the moon and the number of C show that they fell also in two successive lunations. However, both lunar series record 30A instead of the expected alternation of 29 and 30 days, as would be expected in a system of simple alternation. (See Lounsbury 1978: 775-776 for a detailed description of these and other calendric calculations.)

The arithmetical function of glyph A explains its quantities of 29 and 30 days, but not what it does in the syntactical and semantic structure of the lunar series. To understand this, we must go to the dedication phrases from Copan and other sites. Those have a verb relating some sort of dedication action. That is followed by the proper name, the *u kaba*, and then the kind of object that is named--that is a house, a stela, an altar, etc. Typical phrases read "X is the name of his house," or "X is the name of his stela." Here glyph A does not have a pronominal prefix because it is not possessed. Instead we have "X is the sprout name of the twenty-nine" or "X is the name of the thirty." In other words, the glyph A is a noun naming the kind of lunation that is named--a twenty-nine or a thirty.

Summary

A full lunar series relates three pieces of information about the moon on the day of a lunar series. Glyph D records the number of day after the moon arrived. The point of arrival came be shown to have been the first appearance of the crescent at some sites and new moon at others. The second component records the number of the lunation in a six-moon semester distinguished by one of three heads set above a flat-hand sign we believe to be a verb. These semester cycle through the three variant from the moon goddess, to a male moon god, to a skull. The lunar years was eighteen moons long. Moreover, the sequence of these three semesters ran independently of the sequence of eclipse nodes. We also suspect that the number in glyph C sometimes refers to the current lunation and sometimes to the count of elapsed lunations.

The last component of the lunar series was recorded in a sentence containing glyph X, a proper name generated by the number of C and the semester into which the lunation fell. Glyph B was sim-

ply "its name," while glyph A was the noun for the thing named—that is, a twenty-nine or thirty. This last piece of information related to the way in which the Maya accommodated the fractional remainder of the lunation with whole numbers.

A significant number of lunar series did not record the proper name of the lunation. Glyph B is never present when glyph X is missing, although glyph X can rarely occur without glyph B. This pattern actually makes sense. Glyph B, "its name" However, would never be present in the absence of a name, but a proper name could be designated without requiring the *u k'aba* phrase. However, there are a significant number of lunar series that have only glyph C and glyph A.

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1985 Calendric Addenda: the Lords of the Night, the Moon, and other Cycles. In *Ancient Maya Writing*, a unpublished manuscript by Schele, D. Stuart, and G. Stuart.
1991 *Workbook for the 1991 Workshop on Maya Hieroglyphic Writing, with commentary on the inscriptions of Bird-Jaguar of Yaxchilan*. Austin: Art Department, University of Texas.


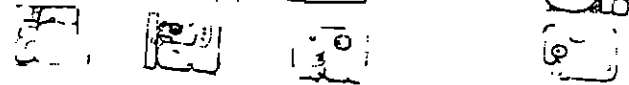





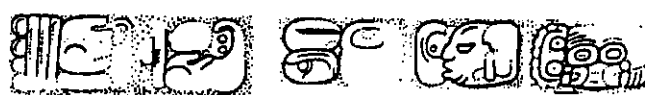







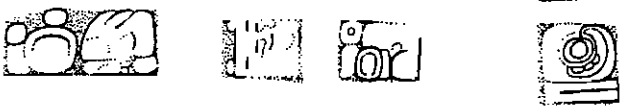
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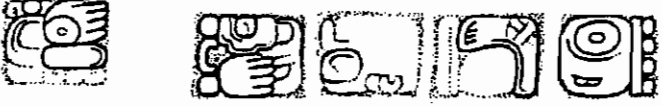
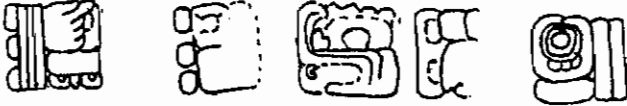


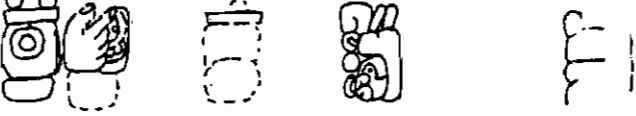








34. Washington, D.C.: Center for Maya Research.








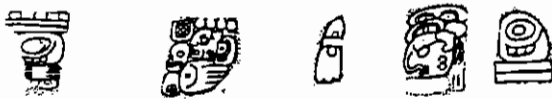






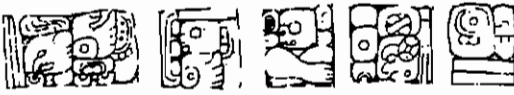


Notes















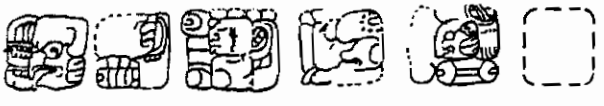
1. Grube believes that the T740 "birth frog" likely has a logographic value the the context of "birth" expression that is different that its value as a syllable sign. Furthermore, he interprets T740 as the soft *h* as in *huh*, "iguana," and the other two signs as the harder *h* as in *ju*. We both agree that the distinction between the *h* and *j* was not always observed by the scribes.






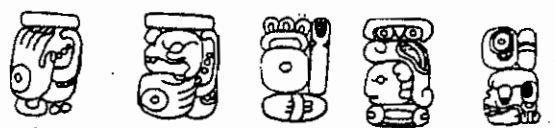







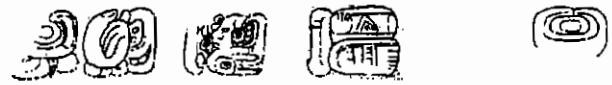
2. This reading was made at the 1992 mini-conference between Peter Mathews, Floyd Lounsbury, David Kelley, and Linda Schele.












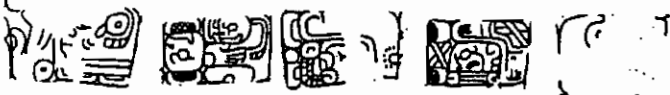

1. Tikal 13	9.0.0.0.0	
2. Tikal TInscp	5.0.0.0.0	
3. Tikal 23	9.3.9.13.3	
4. Tikal 12	9.4.13.0.0	
5. Tikal 6	9.4.0.0.0	
6. Tikal 4	8.17.2.16.17	
7. Tikal 31	9.0.10.0.0	
8. Nar 29	9.12.10.5.12	
9. Nar 24	9.12.10.5.12	
10. Nar 22	9.12.15.13.7	
11. Nar 23	9.13.18.4.18	
12. Nar 30	9.14.3.0.0	
13. Nar 13	9.17.0.0.0	
14. Nar 14	9.17.13.4.3	
15. Tna M9	no date	
16. Tna M8	9.12.10.0.0	





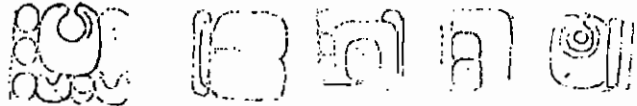





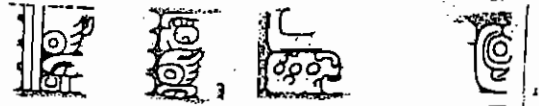
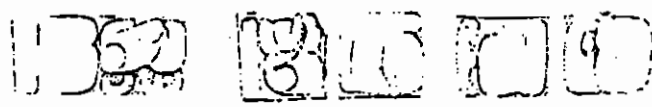

17. Tna M138	unknown	
18. Nar 8	9.18.10.0.0	
19. PNG 3	9.14.0.0.0	
20. PNG 11	9.15.0.0.0	
21. PNG 8	9.11.12.7.2	
22. PNG 37	9.12.0.0.0	
23. PNG 35	9.11.9.8.6	
24. PNG 14	9.16.6.17.1	
25. PNG 1	9.12.2.0.16	
26. PNG 36	9.10.6.5.9	
27. PNG L2	9.11.6.2.1	
28. PNG L3	9.15.18.3.13	
29. PNG 3	9.12.2.0.16	
30. PNG 10	9.15.10.0.0	


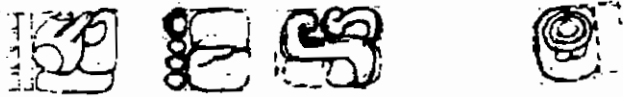








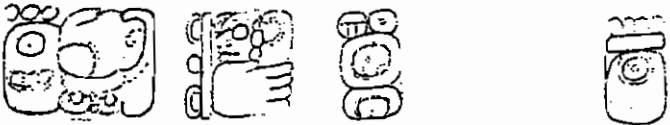

31. PNG 12	9.18.5.0.0		
32. Yax 1	9.16.10.0.0		
33. Yax HS3	9.12.8.13.1		
34. Yax L56	9.15.6.13.1		
35. Yax L26	9.14.14.13.17		
36. Yax L46	9.14.1.17.14		
37. Yax 6	9.11.16.10.13		
38. Yax L47	9.4.11.8.16		
39. Yax L21	9.0.19.2.4		
40. L29	9.13.17.12.10		
41. Yax 11	9.16.1.0.0		
42. Yax 11 side	9.16.1.0.0		

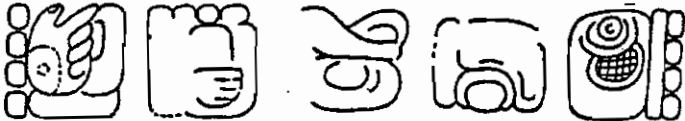










43. Qrg P'	9.18.5.0.0	
44. Qrg O	9.17.14.16.18	
45. QrgA	9.17.15.0.0	
46. Qrg F	9.16.10.0.0	
47. Qrg Dw	9.16.13.4.17	
48. Qrg J	9.16.13.4.17	
49. Qrg G	9.17.15.0.0	
50. Qrg P	9.18.5.0.0	
51. Qrg Ew	9.14.13.4.17	
52. Qrg De	9.16.15.0.0	
53. Qrg Ee	9.17.0.0.0	
54. Qrg B	9.17.10.0.0	
55. Qrg I	9.18.10.0.0	
56. Qrg S	9.15.15.0.0	
57. Qrg HS	9.19.0.0.0	















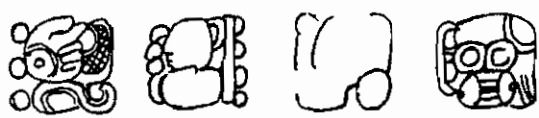


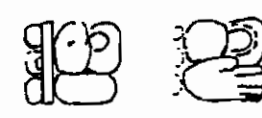

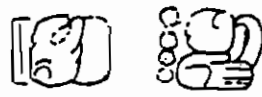

58. Wax ISpot	7.5.0.0.0	
59. Brus 25	9.8.0.0.0	
60. Cpn H'	9.12.8.3.9	
61. Cpn A	9.14.19.8.0	
62. Cpn J	9.13.10.0.0	
63. Cpn M	9.16.5.0.0	
64. Cpn HS	9.13.3.6.8	
65. Cpn N	9.16.10.0.0	
66. Cpn 2	9.10.15.13.0	
67. Cpn P	9.9.10.0.0	
68. Cpn 6	9.12.10.0.0	
69. Cpn I	9.12.3.14.0.	
70. Cpn 19	9.10.19.15.0	
71. Cpn 20	9.0.10.0.0	










72. Pal PTab	9.10.11.17.0	
73. Pal PTab	9.13.10.6.8	
74. Pal PTab	9.14.8.14.15	
75. Pal T21	no date	
76. Pal TFC	1.18.5.4.0	
77. Pal TC	12.19.13.4.0	
78. Pal TS	1.18.5.3.6	
79. Pal TFC jb	9.12.19.14.12	
80. Pal TS jb	9.12.19.14.12	
81. TS stucco	[9.12.19.14.12]	
82. Pal T18 stuc	9.12.6.5.8	
83. Pal Grp 3	9.18.9.4.4	
84. Pal Olv	9.10.14.5.10	



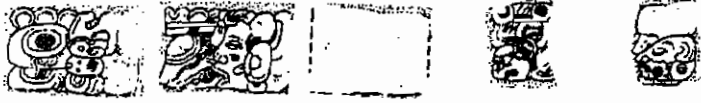



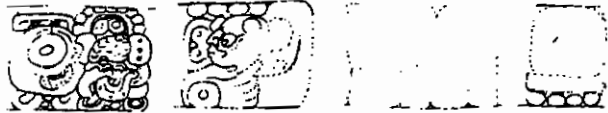



85. Pom Pan	no date					
86. Pal looted	no date					
87. Pal T18 stuc	no date					
88. DP1 8	9.12.0.10.11 9.12.6.15.11					
89. Coba 1	13.0.0.0.0					
90. Car 16	9.5.0.0.0					
91. Car 21	9.13.10.0.0					
92. Car 3	9.6.12.4.6					
93. Clk 89	9.15.0.0.14					
94. Clk 52	9.15.0.0.0					
95. Clk 51	9.14.19.5.0					
96. Etz' 18	9.12.0.0.0					
97. Etz' 19	9.14.0.0.0					






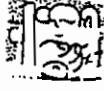

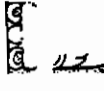




































98. Ich Pat	9.8.0.0.0	
99. Naach 1	9.9.10.0.0	
100. NimP	9.14.10.0.0	
101. LFlo 9	9.15.0.0.0	
102. Pru 27	9.15.10.0.0	
103. Cayo	9.16.0.2.16	
104. DO Pan1	9.10.16.8.14	
105. Ixk 2 9.17.9.0.13		
106. Ixk 9.18.0.0.0		
107. Seibal HS	9.15.13.13.0	
108. Sac 9	9.18.0.0.0	
109. Sac 1	9.16.10.0.0	

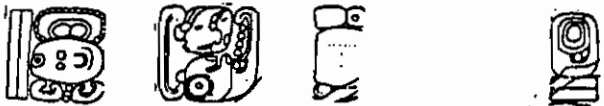


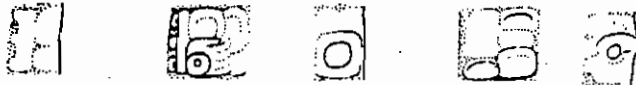


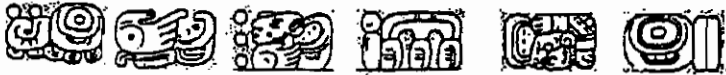



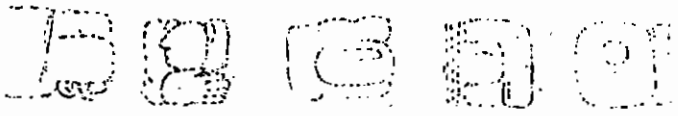
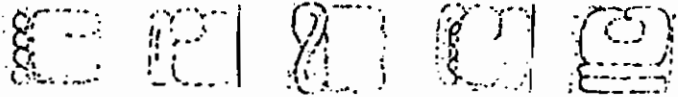

110. Bal 5	9.7.1.6.0	
111. Bal 7	9.16.3.5.14	
112. Pus D	9.10.15.0.0	
113. Pus D	9.3.0.0.0	
114. Pus O	9.7.0.0.0	
115. Pus K	9.12.0.0.0	
116. Res HS	no date	
117. Res HS1	9.4.14.10.4	
118. Xcl TI	9.15.12.6.9	
119. Coba 20	9.17.10.0.0	
120. Cltz	10.2.9.1.9	

121. Bon PoPan	9.4.6.14.9		
122. Bon Houston	9.3.9.16.4		
123. Q Pan 1	9.9.2.0.8		
124. Bon Zurich	9.14.11.5.8		
125. RAZ	8.19.1.9.1		
126. KC panel 9.3.19.3.8			
127. Xul 6	9.3.17.0.0		
128. Bej 2	8.17.17.0.0		
129. Wax 18	8.16.0.0.0		
130. Wax 22	9.3.10.0.0		
131. PNG 25	9.8.10.6.16		
132. AltS 18	9.9.5.0.0		
133. AltS 12	9.4.10.0.0		
134. AltS 8	9.9.15.0.0		

135. AltS 5	9.10.11.12.17	
136. AltS 4	9.10.3.17.0	
137. AltS 9	9.10.0.0.0	
138. DP1 25	9.14.0.0.0	
139. ArP 1	9.8.0.0.0	
140. Bon, T1	9.18.0.3.4	
141. Blk 5	8.18.9.17.18	
142. Cpn 9	9.6.10.0.0	
143. Cpn 7	9.9.0.0.0	

144. Cpn 12	9.10.15.0.0	
145. Cpn 23	9.10.19.12.19??	
146. Cpn 10	9.10.19.13.0	
147. Cpn 13	9.11.0.0.0	
148. Cpn 3	9.10.19.5.0	
149. Cpn 3	9.10.19.5.10	
150. Cpn HS	9.5.19.3.0	
151. Cpn HS	9.9.14.17.1	
152. Cpn HS	9.13.18.17.9	
153. Cpn HS	9.7.5.0.8	

154. Cpn T11	9.14.15.0.0					
155. Cpn T11	9.16.12.5.17					
156. Cpn T11	9.17.2.12.16					
157. Cpn 63	9.0.0.0.0					
158. Cpn Ante	9.5.7.12.2					
159. Cpn 170	9.2.6.17.1 9.9.12.17.1					
160. Cpn Alt5	9.11.15.0.0					
161. Qrg 26	9.2.18.13.1					
162. Pal TIeav	9.12.18.5.16??					
163. Bal 1	9.14.5.0.0					
164. Clk 43	9.4.0.0.0					
165. NimP	9.18.0.0.0					

166. DPI 2	9.15.4.6.4	
167. Cleveland	9.14.19.9.12	
168. Cayo NOr	9.14.18.15.1	
169. Nar 18	9.14.18.15.1	
170. Wax 9	8.14.10.3.5	
171. Tik BC	8.17.1.4.12	
172. DPI HS	9.12.10.0.0	
173. DPI HS	9.12.12.11.2	
174. Itz 17	9.15.4.15.3	
175. Zap	9.0.4.0.0	
176. Coba 1	9.11.0.5.9	
177. Coba 1	9.12.10.5.12	
178. Coba 1	9.14.0.0.0	

179. Coba 6 9.9.10.0.0



180. Coba 16 9.9.4.4.7
9.11.9.0.7
9.19.15.2.7



181. Coba sarc no date



182. Q GP3 no date



183. Q GP 9 9.16.7.7.17



184. Q GP4 9.12.18.1.1



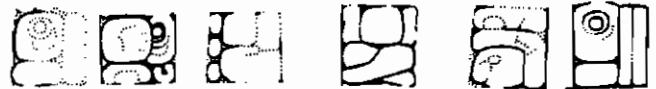
185. Tna disk 9.13.15.0.0



186. Tna 3 9.17.0.0.0



187. Tna 9 9.11.0.0.0?



188. Tna 28 9.11.5.0.0



189. Tna 85 9.12.10.0.0



190. Tna 136 9.14.5.0.0



191. Zap 1

8.19.10.2.9



192. Zap 5

9.0.0.0.0



Lunar Series in Original Order of Charts

Monu	-Date	Julian	Written	Required	Age and difference	
1. Tik 13	9. 2. 13. 0. 0	488, Mar. 6	[17D 3CS]	{ 8.0D, 2CS}	Ag= 7.5/ -9.4	+1
2. Tik TI	5. 0. 0. 0. 0	-1142, Dec. 9	[0D 5CY]	{ 28.4D, 4CF}	Ag= 27.9/ +27.9	No
3. Tik 23	9. 3. 9. 13. 3	504, Sep. 1	[6D 2CF]	{ 6.8D, 2CF}	Ag= 6.2/ +.3	YES
4. Tik 12	9. 4. 13. 0. 0	527, Aug. 9	[0D 3CS]	{ 26.6D, 3CS}	Ag= 26.1/ +26.1	YES
5. Tik 6	9. 4. 0. 0. 0	514, Oct. 16	[13D 1CY]	{ 12.5D, 1CS}	Ag= 11.9/ -1.0	No
6. Tik 4	8. 17. 2. 16. 17	379, Sep. 12	[0D 3C?]	{ 15.1D, 4CF}	Ag= 14.5/ +14.5	???
7. Tik 31	9. 0. 10. 0. 0	445, Oct. 18	[29D 1CY]	{ 2.1D, 6CY}	Ag= 1.5/ -27.4	¹
8. Nar 29	9. 12. 10. 5. 12	682, Aug. 27	[19D 6CF]	{ 19.0D, 1CY}	Ag= 18.4/ -27.4	-1
9. Nar 24	9. 12. 10. 5. 12	682, Aug. 27	[18D 1CY]	{ 19.0D, 1CY}	Ag= 18.4/ -27.4	YES
10. Nar 22	9. 12. 15. 13. 7	688, Jan. 3	[25D 1C?]	{ 24.9D, 1CF}	Ag= 24.4/ -.5	YES
11. Nar 23	9. 13. 18. 4. 18	710, Mar. 19	[15D 1C?]	{ 15.1D, 6CF}	Ag= 14.5/ -.4	+1
12. Nar 30	9. 14. 3. 0. 0	714, Nov. 15	[4D 4C?]	{ 4.3D, 4CY}	Ag= 3.7/ -.2	YES
13. Nar 13	9. 17. 0. 0. 0	771, Jan. 21	[27D 4CS]	{ .6D, 3CF}	Ag= 29.5/ +2.5	No (Ecl)
14. Nar 14	9. 17. 13. 4. 3	784, Feb. 4	[7D 2CF]	{ 9.1D, 2CF}	Ag= 8.5/ +1.5	YES
15. Ton 9	? . ? . ? . ? . ?		[20D 3C?]			
16. Ton 8	9. 12. 10. 0. 0	682, May 7	[21D ???]	{ 25.0D, 3CF}	Ag= 24.5/ +3.5	--
17. Ton 138	? . ? . ? . ? . ?		[7D 3CY]			
18. Nar 8	9. 18. 10. 0. 0	800, Aug. 15	[21D 2CY]	{ 21.8D, 2CY}	Ag= 21.3/ +.3	YES
19. PNG 3	9. 14. 0. 0. 0	711, Dec. 1	[18D 3C?]	{ 16.9D, 3CY}	Ag= 16.3/ -1.6	YES
20. PNG 11	9. 15. 0. 0. 0	731, Aug. 18	[10D 1CY]	{ 11.4D, 1CS}	Ag= 10.9/ +.9	No
21. PNG 8	9. 11. 12. 7. 2	665, Dec. 29	[6D 5CF]	{ 6.6D, 5CF}	Ag= 6.1/ +.1	YES
22. PNG 37	9. 12. 0. 0. 0	672, Jun. 28	[27D 6C?]	{ 27.8D, 1CY}	Ag= 27.3/ +.3	-1?
23. PNG 35	9. 11. 9. 8. 6	662, Feb. 8	[14D ?C?]	{ 13.7D, 5CF}	Ag= 13.2/ -.7	???
24. PNG 14	9. 16. 6. 17. 1	758, Mar. 10	[27D 4CF]	{ 26.4D, 5CF}	Ag= 25.8/ -1.1	-1
25. PNG 1	9. 12. 2. 0. 16	674, Jul. 4	[8D 3CS]	{ 25.5D, 2CS}	Ag= 25.0/ +17.0	+1
26. PNG 36	9. 10. 6. 5. 9	639, Apr. 12	[4D 4CY]	{ 4.4D, 5CY}	Ag= 3.8/ -1	-1
27. PNG L2	9. 11. 6. 2. 1	658, Oct. 21	[19D 5CS]	{ 19.4D, 6CS}	Ag= 18.9/ -1.3	-1
28. PNG L3	9. 15. 18. 3. 13	749, Jul. 27	[9D 1CY]	{ 8.7D, 1CF}	Ag= 8.1/ -.8	%No
29. PNG 3	9. 12. 2. 0. 16	674, Jul. 4	[26D 2CS]	{ 25.5D, 2CS}	Ag= 25.0/ -.9	YES
30. PNG 10	9. 15. 10. 0. 0	741, Jun. 26	[9D 3CS]	{ 8.7D, 3CS}	Ag= 8.2/ -.8	YES
31. PNG 12	9. 18. 5. 0. 0	795, Sep. 11	[23D 6CS]	{ 23.2D, 1CF}	Ag= 22.7/ -.3	-1
32. YAX 1	9. 16. 10. 0. 0	761, Mar. 13	[3D 1CY]	{ 3.3D, 1CF}	Ag= 2.7/ -.3	%No
33. YAX HS3	9. 12. 8. 13. 1	681, Feb. 2	[27D 5CF]	{ 9.1D, 6CF}	Ag= 8.5/ -18.4	-1
34. YAX L56	9. 15. 6. 13. 1	738, Apr. 4	[11D 5CY]	{ 10.9D, 5CY}	Ag= 10.4/ -.6	YES
35. YAX L26	9. 14. 14. 13. 17	726, Jun. 22	[13D 4CY]	{ 18.4D, 3CY}	Ag= 17.8/ +4.9	+1
36. YAX L46	9. 14. 1. 17. 14	713, Nov. 14	[14D 3CS]	{ 22.1D, 3CS}	Ag= 21.6/ +7.6	YES
37. YAX 6	9. 11. 16. 10. 13	669, Feb. 17	[6D 2CF]	{ 11.6D, 2CF}	Ag= 11.0/ +5.1	YES
38. YAX L47	9. 4. 11. 8. 16	526, Feb. 11	[12D 2CS]	{ 14.2D, 3CS}	Ag= 13.6/ +1.7	-1
39. YAX L21	9. 0. 19. 2. 4	454, Oct. 15	[7D 3CS]	{ 8.2D, 3CS}	Ag= 7.6/ +.6	YES
40. YAX L29	9. 13. 17. 12. 10	709, Aug. 23	[15D 5CS]	{ 13.8D, 5CS}	Ag= 13.2/ -1.7	YES
41. YAX 11	9. 16. 1. 0. 0	752, Apr. 29	[12D 5CF]	{ 11.6D, 5CF}	Ag= 11.0/ -.9	YES
42. YAX 11	9. 16. 1. 0. 0	752, Apr. 29	[12D 5CF]	{ 11.6D, 5CF}	Ag= 11.0/ -.9	YES

¹ This lunar series records the amount of time remaining before the next lunation—that is, one day lacking to 1C—rather than as the 29th day of 6C. For some reason, the form of C was not changed.

Monu	Date	Julian	Written	Required	Age and difference		
43.	QRG P'	9.18. 5. 0. 0	795, Sep. 11	[23D 4CF]	{ 23.2D, 1CF}	Ag= 22.7/ -3	?? (dwg)
44.	QRG O	9.17.14.16. 18	785, Oct. 11	[0D 5CF]	{ 4.0D, 5CF}	Ag= 3.4/ +3.4	YES
45.	QRG A	9.17. 5. 0. 0	775, Dec. 25	[26D 2CY]	{ 28.7D, 3CY}	Ag= 28.1/ +2.1	-1
46.	QRG F	9.16.10. 0. 0	761, Mar. 13	[0D 6CF]	{ 3.3D, 1CF}	Ag= 2.7/ +2.7	²
47.	QRG Dw	9.16.13. 4. 17	764, Jun. 2	[4D 4CY]	{ 28.5D, 4CY}	Ag= 28.0/ +24.0	YES
48.	QRG J	9.16.15. 0. 0	766, Feb. 16	[4D 6CS]	{ 2.0D, 2CS}	Ag= 1.3/ -2.6	*No
49.	QRG G	9.17.15. 0. 0	785, Nov. 2	[23D 5CF]	{ 25.9D, 5CF}	Ag= 25.4/ +2.4	YES
50.	QRG P	9.18. 5. 0. 0	795, Sep. 11	[3D 4CF]	{ 23.2D, 1CF}	Ag= 22.7/ +19.7	*No
51.	QRG Ew	9.14.13. 4. 17	725, Dec. 29	[7D 3CY]	{ 10.0D, 3CY}	Ag= 9.4/ +2.4	YES
52.	QRG De	9.16.15. 0. 0	766, Feb. 16	[0D 1CS]	{ 1.9D, 2CS}	Ag= 1.3/ +1.3	³
53.	QRG Ee	9.17. 0. 0. 0	771, Jan. 21	[0D 2CF]	{ .6D, 3CF}	Ag= 29.5/ +29.5	(Ecl) ⁴
54.	QRG B	9.17.10. 0. 0.	780, Nov. 28	[27D 2CS]	{ 27.3D, 4CS}	AG= 26.7/ -.3	*No ⁵
55.	QRG I	9.18.10. 0. 0	800, Aug. 15	[16D 2CY]	{ 21.8D, 2CY}	AG= 21.3/ 5.3	YES
56.	QRG S	9.15.15. 0. 0	746, May 31	[5D 4C?]	{ 7.4D, 4CF}	AG= 6.8/ 1.8	YES ⁶
57.	QRG HS	9.19. 0. 0. 0	810, Jun. 24	[?D 4CF]	{ 19.1D, 4CF}	AG= 18.6/ 18.6	YES ⁷
58.	WAX IS	7. 5. 0. 0. 0	-255, Jan. 2	[3D 3CY]	{ 18.8D, 2CS}	AG= 18.3/ 15.3	No ⁸
59.	Brs Pn	9. 8. 0. 0. 0	593, Aug. 22	[17D 4C?]	{ 20.1D, 4CF}	AG= 19.6/ 2.6	YES?
60.	CPN H'	9.12. 8. 3. 9	680, Jul. 25	[22D 5CS]	{ 23.7D, 5CS}	AG= 23.2/ 1.2	YES
61.	CPN A	9.14.19. 8. 0	731, Jan. 31	[15D 6CY]	{ 18.2D, 6CY}	AG= 17.6/ 2.6	YES
62.	CPN J	9.13.10. 0. 0	702, Jan. 23	[18D 1CS]	{ 19.6D, 1CS}	AG= 19.1/ 1.12	YES
63.	CPN M	9.16. 5. 0. 0	756, Apr. 8	[5D 5CS]	{ 4.6D, 6CS}	AG= 4.1/ -.9	-1
64.	CPN HS	9.13. 3. 6. 8	695, Jul. 6	[10?D 4CF]	{ 19.6D, 4CF}	AG= 19.0/ 9.1	YES
65.	CPN N	9.16.10. 0. 0	761, Mar. 13	[27D 1CY]	{ 3.3D, 1CF}	AG= 2.7/ -5.0	%No
66.	CPN 2	9.10.15.13. 0	648, Jul. 24	[0D 5CS]	{ 28.8D, 5CS}	AG= 28.3/ .5	YES
67.	CPN P	9. 9.10. 0. 0	623, Mar. 18	[9D 3CF]	{ 11.9D, 4CY}	AG= 11.4/ 2.4	No
68.	CPN 6	9.12.10. 0. 0	682, May 7	[22D 3CF]	{ 25.0D, 3CF}	AG= 24.5/ 2.5	YES
69.	CPN I	9.12. 3.14. 0	676, Mar. 19	[0D 4CS]	{ 29.4D, 5CS}	AG= 28.9/ 0.0	-1
70.	CPN 19	9.10.19.15. 0	652, Aug. 12	[4D 1C?]	{ 2.8D, 2CS}	AG= 2.3/ -1.6	-1?
71.	CPN 20	9. 0.10. 0. 0	445, Oct. 18	[20+D 6CF]	{ 2.0D, 6CY}	AG= 1.5/ -??0	%No
72.	PAL PT	9.10.11.17. 0	644, Nov. 2	[27D 2CY]	{ 27.2D, 1CY}	AG= 26.7/ -.2	+1
73.	PAL PT	9.13.10. 6. 8	702, May 30	[27D 6CS]	{ 3.64D, 6CS}	AG= 28.9/ -1.0	YES
74.	PAL PT	9.14. 8.14. 15	720, Aug. 10	[0D 3CY]	{ 3.1D, 3CY}	AG= 2.1/ 2.1	YES
75.	PAL T21	?					
76.	PAL TFC	1.18. 5. 4. 0	-2359, Nov. 28	[10D 5CY]	{ 2.8D, 6CS}	Ag= 2.3/ -7.6	⁹

² This one may record the dark of the sixth lunation, instead of 1 or 2D of the 1st lunation. As on Stela 31, the form of C does not change as it should.

³ This one records the dark of the moon for 1C, while the computer program calculation calls for the second day of the second C. This is, therefore, an agreement.

⁴ This text records the dark of 2C, when the calculation wants first day of 3C. Its an another agreement.

⁵ The number is an unusual full-figure glyph. It could well be four, but it has a *sak* sign in the headdress. Since the head variant of the number 2 and *sak* are interchangeable, we have read the number as two.

⁶ The head in C is eroded but can be determined from X.

⁷ The form of the number with D is unique.

⁸ This is a retrospective date calculated far into the past.

⁹ This one is in error in the retrospective calculation the moon age and C, but we have not yet identified the type of error. If a 29.5-day moon is used, we would get 7D, 3C; with the Palenque moon formula it would be 30D, 5C; and, with the Copan formula, it would be 4D, 5C.

Monu	Date	Julian	Written	Required	Age and difference	
77. PAL TC	12.19.13. 4. 0	-3120, Jan. 2	[5D 2CF]	{ 24.7D, 2CF}	Ag= 24.2/ +19.2	YES
78. PAL TS	1.18. 5. 3. 6	-2359, Nov. 14	[26D 5CS]	{ 9.1D, 3CY}	Ag= 17.8/ -8.1	No
79. PAL TFC jb	9.12.19.14. 12	692, Jan. 7	[11D 3CS]	{ 13.4D, 3CS}	AG= 12.9/ 1.9	YES
80. PAL TS jb	9.12.19.14. 12	692, Jan. 7	[11D 3CS]	{ 13.4D, 3CS}	AG= 12.9/ 1.9	YES
81. TS stucco	9.12.19.14. 12	692, Jan. 7	[missing]			
82. PAL 18 jb	9.12. 6. 5. 8	678, Sep. 13	[19D 5CY]	{ 21.9D, 6CY}	AG= 21.4/ 2.4	-1
83. PAL IS	9.18. 9. 4. 4	799, Nov. 13	[5D 1CS]	{ 11.6D, 5CS}	AG= 11.1/ 6.1	*No
84. PAL Oliv	9.10.14. 5. 10	647, Mar. 2	[?D 6CS]	{ 20.8D, 6CS}	AG= 20.3/ ??	YES?
85. POM Pan			[missing]			
86. PAL looted	?		[15D 4CY]	{ ???}		
87. PAL T18 stc			[?? 2CY]			
88. DPL 8	9.12. 0.10. 11	673, Jan. 25	[3D 3CS]	{ 2.6D, 3CS}	Ag= 17.7/ +14.7	YES
89. COB 1	13. 0. 0. 0. 0	-3113, Sep. 8	[23D ?C?]	{ 13.6D, 1CY}	Ag= 13.2/ -9.8	???
90. CRC 16	9. 5. 0. 0. 0	534, Jul. 3	[7D 5CY]	{ 7.0D, 5CY}	Ag= 6.5/ -.5	YES
91. CRC 21	9.13.10. 0. 0	702, Jan. 22	[19D 1CY]	{ 19.6D, 1CS}	Ag= 19.1/ +.1	No
92. CRC 3	9.16.12. 4. 6	763, May 28	[11D 6C?]	{ 11.9D, 4CS}	Ag= 11.4/ +.4	???
93. CLK 89	9.15. 0. 0. 14	731, Sep. 1	[15D 1CF]	{ 25.4D, 1CF}	Ag= 24.9/ +9.9	YES
94. CLK 52	9.15. 0. 0. 0	731, Aug. 18	[8D 1CS]	{ 11.4D, 1CS}	Ag= 10.9/ +2.9	YES
95. CLK 51	9.14.19. 5. 0	730, Dec. 1	[14D 4CY]	{ 17.2D, 4CY}	Ag= 16.7/ +2.7	YES
96. ETZ 18	9.12. 0. 0. 0	672, Jun. 28	[0D 1CY]	{ 27.8D, 1CY}	Ag= 27.3/ +27.3	YES ¹⁰
97. ETZ 19	9.14. 0. 0. 0	711, Dec. 1	[21D 6C?]	{ 16.9D, 3CY}	Ag= 16.3/ -4.6	No
98. ICHP	9. 8. 0. 0. 0	593, Aug. 22	[19D 3CF]	{ 20.1D, 4CF}	Ag= 19.6/ +.6	-1
99. NAA 1	9. 9.10. 0. 0	623, Mar. 18	[9D 3C?]	{ 11.9D, 4CY}	Ag= 11.4/ +2.4	YES ¹¹
100. NIM 15	9.14.10. 0. 0	721, Oct. 9	[13D ?C?]	{ 14.2D, 5CF}	Ag= 13.6/ +.7	¹²
101. LFL 9	9.15. 0. 0. 0	731, Aug. 18	[11D 3CF]	{ 11.4D, 1CS}	Ag= 10.9/ -7.4	No
102. PRU 27	9.15.10. 0. 0	741, Jun. 26	[9D ?CS]	{ 8.7D, 3CS}	Ag= 8.2/ -.8	¹³
103. CAY L1	9.16. 0. 2. 16	751, Jun. 30	[3D 2C?]	{ 2.9D, 1CY}	Ag= 2.4/ -.6	???
104. CAY DO	9.10.16. 8. 14	649, Apr. 24	[7D 3CY]	{ 7.6D, 3CY}	Ag= 7.0/ +6.5	YES
105. IXK 2	9.17. 9. 0. 13	779, Dec. 17	[5D 3CF]	{ 5.2D, 5CF}	Ag= 4.6/ -.3	-2
106. IXK 1	9.18. 0. 0. 0	790, Oct. 7	[24D 6C?]	{ 24.6D, 6CY}	Ag= 24.0/ +6.7	??? ¹⁴
107. SBL HS	9.15.13.13. 0	745, Feb. 25	[19D 6CF]	{ 19.8D, 6CF}	Ag= 19.3/ +.3	YES
108. SAC 9	9.18. 0. 0. 0	790, Oct. 7	[23D 6CY]	{ 25.0D, 6CY}	Ag= 24.1/ 1.1	YES
109. SAC 1	9.16.10. 0. 0	761, Mar. 13	[4D 1CY]	{ 3.3D, 1CF}	Ag= 2.7/ -1.2	%No
110. BAL 5	9. 7. 1. 6. 0	575, Mar. 30	[4D ?C?]	{ 3.6D, 5CY}	Ag= 3.1/ -.9	???
111. BAL 7	9.16. 3. 5. 14	754, Aug. 11	[13D 1CF]	{ 18.8D, 3CS}	Ag= 18.2/ +5.2	No
112. PUL D	9.10.15. 0. 0	647, Nov. 7	[23D 3CY]	{ 5.1D, 3CY}	Ag= 4.6/ -18.3	YES
113. PUL D	9. 3. 0. 0. 0	495, Jan. 29	[17D 4C?]	{ 17.9D, 3CY}	Ag= 17.4/ +.4	+1?
114. PUL O	9. 7. 0. 0. 0	573, Dec. 5	[25D 6CY]	{ 25.6D, 6CY}	Ag= 25.1/ +.1	YES
115. PUL K	9.12. 0. 0. 0	672, Jun. 28	[1D 3CF]	{ 27.8D, 1CY}	Ag= 27.3/ +26.3	No ¹⁵

¹⁰ This drawing is very bad, so that the number might be five rather than 1.

¹¹ We determined the form of C from X.

¹² This one does not have a standard C form.

¹³ The C has no number, but the X indicates the skull form of C.

¹⁴ Head in C is either the Young Male or the Moon Goddess.

¹⁵ The number may be 1 with two fillers, and it is not possible to determine the face in C from the published photographs.

Monu	Date	Julian	Written	Required	Age and difference	
116.	RES HS		[?D 3CY]			
117.	RES HS1	9. 4.14.10. 4	529, Feb. 24	[0D 4CS]	{ 29.5D, 4CS}	Ag= 29.0/ +29.0 YES
118.	XCA TI	9.15.12. 6. 9	743, Oct. 23	[2D 2CY]	{ 1.4D, 2CY}	Ag= .8/ -1.1 YES
119.	COB 20	9.17.10. 0. 0	780, Nov. 28	[23D 4CS]	{ 27.3D, 4CS}	Ag= 26.7/ +3.8 YES
120.	CHN TI	10. 2. 9. 1. 9	878, Jul. 26	[5D 5C?]	{ 23.3D, 6CS}	Ag= 22.8/ +17.8 -1
121.	BON PO	9. 4. 6.14. 9	521, Jun. 30	[10D 9CY]	{ 10.4D, 6CY}	Ag= 9.9/ -7.4 ***
122.	BON Pan	9. 3. 3.16. 4	498, Dec. 3	[3D 3CY]	{ 4.5D, 3CF}	Ag= 3.9/ +.9 %No
123.	Q GP1	9. 9. 2. 0. 8	615, May 7	[5D 2CF]	{ 4.4D, 3CF}	Ag= 3.9/ -1.0 -1
124.	BON Zur	9.14.11. 5. 8	723, Jan. 21	[10D 3CF]	{ 9.7D, 3CF}	Ag= 9.2/ -.8 YES
125.	RAZ Ptg	8.19. 1. 9.13	417, Sep. 28	[11D 2CY]	{ 2.2D, 1CF}	AG= 1.67/ -9.3 No
126.	KC Pan	9. 3.19. 3. 8	513, Dec. 28	[16D 4CY]	{ 15.8D, 3CY}	AG= 15.2/ -.7 +1
127.	XUL 6	9. 3.17. 0. 0	511, Nov. 1	[25D 4C?]	{ 25.1D, 6CS}	AG= 24.5/ -.4 ???
128.	BEJ 2	8.17.17. 0. 0	393, Jul. 23	[27D 1CS]	{ 28.3D, 1CS}	AG= 27.8/ .8 YES
129.	WAX 18	8.16. 0. 0. 0	357, Feb. 3	[25D 0C?]	{ 27.0D, 6CY}	AG= 26.1/ -1.1 +1
130.	WAX 22	9. 3.10. 0. 0	504, Dec. 7	[14D 4CF]	{ 15.2D, 5CF}	AG= 14.6/ .7 -1
131.	PN 25	9. 8.10. 6.16	603, Nov. 14	[3D 2C?]	{ 5.8D, 5CF}	AG= 5.2/ 2.2 No
132.	ASac 18	9. 9. 5. 0. 0	618, Apr. 13	[11D 2C?]	{ 13.3D, 3CF}	AG= 12.8/ 1.8 -1?
133.	ASac 12	9. 4.10. 0. 0	524, Aug. 24	[7D 3C?]	{ 9.7D, 3CS}	AG= 9.2/ 2.2 ???
134.	ASac 8	9. 9.15. 0. 0	628, Feb. 20	[10D 4C?]	{ 10.6D, 5CS}	AG= 10.0/ 8.0 -1?
135.	ASac 5	9.10.11.12.17	644, Aug. 11	[3D 5CY]	{ 3.3D, 5CF}	AG= 2.8/ -.2 %No
136.	ASac 4	9.10. 3.17. 0	636, Dec. 14	[11D 4CF]	{ 11.7D, 6CS}	AG= 11.2/ .2 No
137.	ASac 9	9.10. 0. 0. 0	633, Jan. 25	[8D 5CF]	{ 9.2D, 6CF}	AG= 8.7/ .7 -1
138.	DPL 25	9.14. 0. 0. 0	711, Dec. 1	[16D 3CY]	{ 16.9D, 3CY}	AG= 16.3/ .4 YES
139.	ARPI	9. 9. 0. 0. 0	613, May. 9	[14D 2C?]	{ 15.0D, 2CS}	AG= 14.2/ .8 YES
140.	BON Ptg	9.18. 0. 3. 4	790, Dec. 10	[?D 3CS]	{ 4.4D, 3CS}	AG= 29.0/ 0.0 YES
141.	BLK 5	8.18. 9.17.18	406, May 14	[9D 5C?]	{ 11.0D, 4CY}	AG= 10.4/ 1.5 +1?
142.	CPN 9	9. 6.10. 0. 0	564, Jan. 27	[27D 5CY]	{ 28.3D, 4CS}	AG= 27.8/ .8 No
143.	CPN 7	9. 9. 0. 0. 0	613, May 9	[11D 0CS]	{ 14.7D, 2CS}	AG= 14.1/ 3.2 ???
144.	CPN 12	9.10.15. 0. 0	647, Nov. 7	[3D ?CY]	{ 5.1D, 3CY}	AG= 4.5/ 1.5 YES ¹⁶
145.	CPN 23	9.10.19.13. 0	652, Jul. 3	[5D ?C?]	{ 21.8D, 6CY}	AG= 21.3/ 16.3 No ¹⁷
146.	CPN 10	9.10.19.13. 0	652, Jul. 3	[23D 6CF]	{ 21.8D, 6CY}	AG= 21.3/ -1.6 %No ¹⁸
147.	CPN 13	9.11. 0. 0. 0	652, Oct. 11	[5D 3CY]	{ 3.8D, 4CS}	AG= 3.2/ -1.7 No
148.	CPN 3	9.10.19. 5. 0	652, Jan. 25	[10D ?C?]	{ 9.5D, 1CF}	AG= 9.0/ -.9 ???
149.	CPN 3	9.10.19. 5.10	652, Feb. 4	[21D ?C?]	{ 19.5D, 1CY}	AG= 19.0/ 2.0 ???
150.	CPN HS	9. 5.19. 3. 0	553, May 24	[25D 4CY]	{ 26.3D, 4CY}	Ag= 25.8/ +.8 YES
151.	CPN HS	9. 9.14.17. 5	628, Feb. 8	[23D 3CS]	{ 25.1D, 4CS}	AG= 24.6/ 1.6 -1
152.	CPN HS	9.13.18.17.19	710, Dec. 5	[27D 1CS]	{ 10.3D, 3CS}	Ag= 9.7/ -17.2 No
153.	CPN HS	9. 7. 5. 0. 8	578, Nov. 17	[7D ?C?]	{ 2.7D, 2CF}	Ag= 2.2/ +2.2 ???
154.	CPN T11	9.14.15. 0. 0	726, Sep. 13	[5D 5CY]	{ 12.8D, 6CY}	Ag= 12.2/ +7.2 -1
155.	CPN T11	9.16.12. 5.17	763, Jun. 28	[11D 6CS]	{ 13.4D, 5CS}	Ag= 12.8/ +1.8 +1

¹⁶ The number of the C is largely destroyed, but it could well be three. The other less likely alternative reading for the IS date is 9.10.19.6.0 with expected lunar data of 29.5D, 1CY. This particular reading does not fit as well the monument or the historical context.

¹⁷ The reading of IS date on this monument still very tentative, but this proposal seems to fit the data recorded in Morley's drawing the most closely.

¹⁸ Note that the D and number of C is correct.

Monu	Date	Julian	Written	Required	Age and difference	
156. CPN T11	9.17. 2.12. 16	773, Sep. 22	[?D 6C?]	{ 2.0D, 6CS}	Ag= 1.5/ +1.4	???
157. CPN 63	9. 0. 0. 0. 0	435, Dec. 10	[9D 4CS]	{ 4.8D, 4CS}	Ag= 4.3/ -4.7	YES
158. CPN Ant	9. 5. 7.12. 2	542, Jan. 25	[4D 3CS]	{ 22.6D, 2CS}	Ag= 22.1/ +18.1	+1
159. CPN 170	9. 2. 6.17. 1	482, Mar. 19	[13D 5CY]	{ 14.3D, 6CY}	Ag= 13.7/ +.7	-1 ¹⁹
160. CPN Salt	9.11.15. 0. 0	667, Jul. 25	[27D 3CY]	{ 29.1D, 6CS}	Ag= 28.6/ +1.6	No
161. QRG 26	9. 2.18.13. 1	493, Oct. 27	[0D ?CF]	{ 1.9D, 6CY}	Ag= 1.4/ +1.3	No
162. PAL Tlea	9.12.18. 5. 16	690, Jul. 20	[?D 1CY]	{ 9.0D, 3CS}	Ag= 8.4/ +8.4	No
163. BLN 1	9.14. 5. 0. 0	716, Nov. 4	[5D 4CY]	{ 15.5D, 4CS}	Ag= 15.0/ +10.0	No
164. CLK 43	9. 4. 0. 0. 0	514, Oct. 16	[10D 5C?]	{ 12.5D, 1CS}	Ag= 11.9/ +1.9	No
165. NIM 14	9.18. 0. 0. 0	790, Oct. 7	[28D ?C?]	{ 24.6D, 6CY}	Ag= 24.0/ -3.9	No?
166. DPL 2	9.15. 4. 6. 4	735, Nov. 29	[10D 1CF]	{ 10.3D, 6CS}	Ag= 9.8/ -.2	+1
167. Civ Lin	9.14.19. 9. 12	731, Mar. 3	[5D 1CF]	{ 20.6D, 1CS}	Ag= 20.1/ 15.1	No ²⁰
168. CAY No	9.14.18.15. 1	730, Jun. 25	[6D 1CS]	{ 5.9D, 5CF}	Ag= 5.4/ -.6	No
169. NAR 18	9.14.15. 0. 0	726, Sep. 13	[13D 6C?]	{ 12.8D, 6CY}	Ag= 12.2/ -.7	???
170. WAX 9	8.14.10. 3. 15	327, Sep. 23	[24D ?C?]	{ 21.2D, 3CY}	Ag= 20.7/ -3.2	???
171. TIK BC	8.17. 1. 4. 12	378, Jan. 16	[28D 1CF]	{ 30.2D, 1CF}	Ag= .2/ -27.8	YES
172. DPL HS	9.12.10. 0. 0	682, May 7	[22D 3CF]	{ 25.0D, 3CF}	Ag= 24.5/ +2.6	YES
173. DPL HS	9.12.12.11. 2	684, Dec. 4	[20D 5CS]	{ 22.1D, 5CS}	Ag= 21.6/ +1.6	YES
174. ITZ 17	9.15. 4.15. 3	736, May 26	[13D 1CF]	{ 12.1D, 6CF}	Ag= 11.6/ -1.3	*No
175. Zap5	9. 0. 4. 0. 0	439, Nov. 19	[?D 4CY]	{ 27.3D, 4CY}	AG= 26.8/ ???	YES
176. COB 1	9.11. 0. 5. 9	653, Jan. 29	[?D ?C?]	{ 24.1D, 1CF}	Ag= 23.6/ +23.6	???
177. COB 1	9.12.10. 5. 12	682, Aug. 27	[4D ?C?]	{ 19.0D, 1CF}	Ag= 18.4/ +23.6	???
178. COB 1	9.14. 0. 0. 0	711, Dec. 1	[5D 5C?]	{ 16.9D, 3CY}	Ag= 16.3/ +11.3	No
179. COB 6	9. 9.10. 0. 0	623, Mar. 18	[10D ?CY]	{ 11.9D, 4CY}	Ag= 11.4/ +1.4	YES
180. COB 16	9. 9. 4. 4. 7	617, Jul. 14	[7D ?C?]	{ 6.1D, 6CY}	Ag= 5.6/ -1.4	???
181. COB sarc	?		[?D ?CS]			
182. Q GP3	?		[15D 1CY]			
183. Q GP9	9.16. 7. 7. 17	758, Sep. 8	[27D, 5CY]	{ 25.0D 5CY]	Ag= 24.7/ -2.3	YES
184. Q GP4	9.12.18. 1. 1	690, Apr. 16	[2D 6CY]	{ 2.6D, 6CY}	Ag= 2.0/ +5.7	YES
185. TON Dsk	9.13.15. 0. 0	706, Dec. 27	[?D 3C?]	{ 18.3D, 2CF}	AG= 17.7/ -9.2	+1 ²¹
186. TON 3	9.17. 0. 0. 0	771, Jan. 20	[20+D 5C?]	{ .5D, 3CF}	AG= 29.5/ ??	No, Ecl.
187. TON 9	9.11. 0. 0. 0	652, Oct. 11	[20+D 3CS]	{ 3.7D, 4CS}	AG= 3.2/ ??	YES
188. TON 28	9.11. 5. 0. 0	657, Sep. 15	[?D 5C?]	{ 2.4D, 5CF}	AG= 1.8/ -23.1	???
189. TON 85	9.12.10. 0. 0	682, May 7	[?D 3C?]	{ 25.0D, 3CF}	AG= 24.5/ ??	???
190. TON 136	9.14. 5. 0. 0	716, Nov. 4	[15D 4C?]	{ 15.5D, 4CS}	AG= 15.0/ 15.0	???
191. Zap5	9. 0. 0. 0. 0	435, Dec. 10	[4D 4CS]	{ 4.8D, 4CS}	AG= 4.2/ .3	YES
192. Zap1	8.19.10. 2. 9	426, Mar. 21	[?D 3C?]	{ 26.9D, 3CF}	AG= 26.4/ ???	YES

¹⁹ This date comes from a badly battered monument, so that its reading is not entirely sure. The alternative is 9.5.19.17.1 (554, Mar. 1) which calls for 12.1D and 2C female.

²⁰ There is an error in the IS date that is hard to resolve. The stone seems to have 9.14.19.9.12 or 13 combined with 1 Ahaw and G3. This G3 is correct of the recorded long count and for 9.14.17.9.12 (729, Mar. 13). This long count calls for 8D 1C female, with is closer to the lunar series recorded.

²¹ This number with C may be two dots and a filler, but we can't tell from the drawing.

Lunar Series Arranged by Agreement

Agreement	Monu	Date	Julian	Written	Required	Age and difference		
1.	ARP 1	9. 9. 0. 0. 0	613, May. 9	[14D 2C?]	{ 15.0D, 2CS}	AG= 14.2/ .8	YES	
2.	BEJ 2	8.17.17. 0. 0	393, Jul. 23	[27D 1CS]	{ 28.3D, 1CS}	AG= 27.8/ .8	YES	
3.	BON Ptg	9.18. 0. 3. 4	790, Dec. 10	[?D 3CS]	{ 4.4D, 3CS}	AG= 29.0/ 0.0	YES	
4.	BON Zur	9.14.11. 5. 8	723, Jan. 21	[10D 3CF]	{ 9.7D, 3CF}	Ag= 9.2/ -.8	YES	
5.	Brs Pn	9. 8. 0. 0. 0	593, Aug. 22	[17D 4C?]	{ 20.1D, 4CF}	AG= 19.6/ 2.6	YES?	
6.	CAY DO	9.10.16. 8. 14	649, Apr. 24	[7D 3CY]	{ 7.6D, 3CY}	Ag= 7.0/ +6.5	YES	
7.	CLK 51	9.14.19. 5. 0	730, Dec. 1	[14D 4CY]	{ 17.2D, 4CY}	Ag= 16.7/ +2.7	YES	
8.	CLK 52	9.15. 0. 0. 0	731, Aug. 18	[8D 1CS]	{ 11.4D, 1CS}	Ag= 10.9/ +2.9	YES	
9.	CLK 89	9.15. 0. 0. 14	731, Sep. 1	[15D 1CF]	{ 25.4D, 1CF}	Ag= 24.9/ +9.9	YES	
10.	COB 6	9. 9.10. 0. 0	623, Mar. 18	[10D ?CY]	{ 11.9D, 4CY}	Ag= 11.4/ +1.4	YES	
11.	COB 20	9.17.10. 0. 0	780, Nov. 28	[23D 4CS]	{ 27.3D, 4CS}	Ag= 26.7/ +3.8	YES	
12.	CPN 2	9.10.15.13. 0	648, Jul. 24	[0D 5CS]	{ 28.8D, 5CS}	AG= 28.3/ .5	YES	
13.	CPN 2	9.10.15.13. 0	648, Jul. 24	[0D 5CS]	{ 28.8D, 5CS}	AG= 28.3/ 0.0	YES	
14.	CPN 6	9.12.10. 0. 0	682, May 7	[22D 3CF]	{ 25.0D, 3CF}	AG= 24.5/ 2.5	YES	
15.	CPN 12	9.10.15. 0. 0	647, Nov. 7	[3D ?CY]	{ 5.1D, 3CY}	AG= 4.5/ 1.5	YES ¹	
16.	CPN 63	9. 0. 0. 0. 0	435, Dec. 10	[9D 4CS]	{ 4.8D, 4CS}	Ag= 4.3/ -4.7	YES	
17.	CPN A	9.14.19. 8. 0	731, Jan. 31	[15D 6CY]	{ 18.2D, 6CY}	AG= 17.6/ 2.6	YES	
18.	CPN H'	9.12. 8. 3. 9	680, Jul. 25	[22D 5CS]	{ 23.7D, 5CS}	AG= 23.2/ 1.2	YES	
19.	CPN HS	9. 5.19. 3. 0	553, May 24	[25D 4CY]	{ 26.3D, 4CY}	Ag= 25.8/ +.8	YES	
20.	CPN HS	9.13. 3. 6. 8	695, Jul. 6	[10?D 4CF]	{ 19.6D, 4CF}	AG= 19.0/ 9.1	YES	
21.	CPN J	9.13.10. 0. 0	702, Jan. 23	[18D 1CS]	{ 19.6D, 1CS}	AG= 19.1/ 1.12	YES	
22.	CRC 16	9. 5. 0. 0. 0	534, Jul. 3	[7D 5CY]	{ 7.0D, 5CY}	Ag= 6.5/ -.5	YES	
23.	DPL 8	9.12. 0.10. 11	673, Jan. 25	[3D 3CS]	{ 2.6D, 3CS}	Ag= 17.7/ +14.7	YES	
24.	DPL 25	9.14. 0. 0. 0	711, Dec. 1	[16D 3CY]	{ 16.9D, 3CY}	AG= 16.3/ .4	YES	
25.	DPL HS	9.12.10. 0. 0	682, May 7	[22D 3CF]	{ 25.0D, 3CF}	Ag= 24.5/ +2.6	YES	
26.	DPL HS	9.12.12.11. 2	684, Dec. 4	[20D 5CS]	{ 22.1D, 5CS}	Ag= 21.6/ +1.6	YES	
27.	ETZ 18	9.12. 0. 0. 0	672, Jun. 28	[0D 1CY]	{ 27.8D, 1CY}	Ag= 27.3/ +27.3	YES ²	
28.	NAA 1	9. 9.10. 0. 0	623, Mar. 18	[9D 3C?]	{ 11.9D, 4CY}	Ag= 11.4/ +2.4	YES ³	
29.	NAR 8	9.18.10. 0. 0	800, Aug. 15	[21D 2CY]	{ 21.8D, 2CY}	Ag= 21.3/ +.3	YES	
30.	NAR 14	9.17.13. 4. 3	784, Feb. 4	[7D 2CF]	{ 9.1D, 2CF}	Ag= 8.5/ +1.5	YES	
31.	NAR 22	9.12.15.13. 7	688, Jan. 3	[25D 1C?]	{ 24.9D, 1CF}	Ag= 24.4/ -.5	YES	
32.	NAR 24	9.12.10. 5. 12	682, Aug. 27	[18D 1CY]	{ 19.0D, 1CY}	Ag= 18.4/ -27.4	YES	
33.	NAR 30	9.14. 3. 0. 0	714, Nov. 15	[4D 4C?]	{ 4.3D, 4CY}	Ag= 3.7/ -.2	YES	
34.	PAL Oliv	9.10.14. 5. 10	647, Mar. 2	[?D 6CS]	{ 20.8D, 6CS}	AG= 20.3/ ??	YES?	
35.	PAL PT	9.13.10. 6. 8	702, May 30	[27D 6CS]	{ 3.64D, 6CS}	AG= 28.9/ -1.0	YES	
36.	PAL PT	9.14. 8.14. 15	720, Aug. 10	[0D 3CY]	{ 3.1D, 3CY}	AG= 2.1/ 2.1	YES	
37.	PAL TC	12.19.13. 4. 0	-3120, Jan. 2	[5D 2CF]	{ 24.7D, 2CF}	Ag= 24.2/ +19.2	YES	
38.	PAL TFC	9.12.19.14. 12	692, Jan. 7	[11D 3CS]	{ 13.4D, 3CS}	AG= 12.9/ 1.9	YES	
39.	PAL TS	9.12.19.14. 12	692, Jan. 7	[11D 3CS]	{ 13.4D, 3CS}	AG= 12.9/ 1.9	YES	

¹ The number of the C is largely destroyed, but it could well be three. The other less likely alternative reading for the IS date is 9.10.19.6.0 with expected lunar data of 29.5D, 1CY. This particular reading does not fit as well the monument or the historical context.

² This drawing is very bad, so that the number might be five rather than 1.

³ We determined the form of C from X.

Monu	Date	Julian	Written	Required	Age and difference	
40. PNG 3	9.12. 2. 0. 16	674, Jul. 4	[26D 2CS]	{ 25.5D, 2CS}	Ag= 25.0/ -0.9	YES
41. PNG 3	9.14. 0. 0. 0	711, Dec. 1	[18D 3C?]	{ 16.9D, 3CY}	Ag= 16.3/ -1.6	YES
42. PNG 8	9.11.12. 7. 2	665, Dec. 29	[6D 5CF]	{ 6.6D, 5CF}	Ag= 6.1/ +0.1	YES
43. PNG 10	9.15.10. 0. 0	741, Jun. 26	[9D 3CS]	{ 8.7D, 3CS}	Ag= 8.2/ -0.8	YES
44. PUL D	9.10.15. 0. 0	647, Nov. 7	[23D 3CY]	{ 5.1D, 3CY}	Ag= 4.6/ -18.3	YES
45. PUL O	9. 7. 0. 0. 0	573, Dec. 5	[25D 6CY]	{ 25.6D, 6CY}	Ag= 25.1/ +0.1	YES
46. Q GP4	9.12.18. 1. 1	690, Apr. 16	[2D 6CY]	{ 2.6D, 6CY}	Ag= 2.0/ +5.7	YES
47. Q GP9	9.16. 7. 7. 17	758, Sep. 8	[27D, 5CY]	{ 25.0D 5CY}	Ag= 24.7/ -2.3	YES
48. QRG 0	9.17.14.16.18	785, Oct. 11	[0D 5CF]	{ 4.0D, 5CF}	Ag= 3.4/ +3.4	YES
49. QRG De	9.16.15. 0. 0	766, Feb. 16	[0D 1CS]	{ 1.9D, 2CS}	Ag= 1.3/ +1.3	YES ⁴
50. QRG Dw	9.16.13. 4. 17	764, Jun. 2	[4D 4CY]	{ 28.5D, 4CY}	Ag= 28.0/ +24.0	YES
51. QRG Ee	9.17. 0. 0. 0	771, Jan. 21	[0D 2CF]	{ .6D, 3CF}	Ag= 29.5/ +29.5	(Ecl) ⁵
52. QRG Ew	9.14.13. 4. 17	725, Dec. 29	[7D 3CY]	{ 10.0D, 3CY}	Ag= 9.4/ +2.4	YES
53. QRG F	9.16.10. 0. 0	761, Mar. 13	[0D 6CF]	{ 3.3D, 1CF}	Ag= 2.7/ +2.7	YES ⁶
54. QRG G	9.17.15. 0. 0	785, Nov. 2	[23D 5CF]	{ 25.9D, 5CF}	Ag= 25.4/ +2.4	YES
55. QRG HS	9.19. 0. 0. 0	810, Jun. 24	[?D 4CF]	{ 19.1D, 4CF}	AG= 18.6/ 18.6	YES ⁷
56. QRG I	9.18.10. 0. 0	800, Aug. 15	[16D 2CY]	{ 21.8D, 2CY}	AG= 21.3/ 5.3	YES
57. QRG S	9.15.15. 0. 0	746, May 31	[5D 4C?]	{ 7.4D, 4CF}	AG= 6.8/ 1.8	YES ⁸
58. RES HS	9. 4.14.10. 4	529, Feb. 24	[0D 4CS]	{ 29.5D, 4CS}	Ag= 29.0/ +29.0	YES
59. SAC 9	9.18. 0. 0. 0	790, Oct. 7	[23D 6CY]	{ 25.0D, 6CY}	Ag= 24.1/ 1.1	YES
60. SBL HS	9.15.13.13. 0	745, Feb. 25	[19D 6CF]	{ 19.8D, 6CF}	Ag= 19.3/ +0.3	YES
61. TIK 12	9. 4.13. 0. 0	527, Aug. 9	[0D 3CS]	{ 26.6D, 3CS}	Ag= 26.1/ +26.1	YES
62. TIK 23	9. 3. 9.13. 3	504, Sep. 1	[6D 2CF]	{ 6.8D, 2CF}	Ag= 6.2/ +0.3	YES
63. TIK 31	9. 0.10. 0. 0	445, Oct. 18	[29D 1CY]	{ 2.1D, 6CY}	Ag= 1.5/ -27.4	YES ⁹
64. TIK BC	8.17. 1. 4. 12	378, Jan. 16	[28D 1CF]	{ 30.2D, 1CF}	Ag= .2/ -27.8	YES
65. TON 9	9.11. 0. 0. 0	652, Oct. 11	[20+D 3CS]	{ 3.7D, 4CS}	AG= 3.2/ ??	YES
66. XCA TI	9.15.12. 6. 9	743, Oct. 23	[2D 2CY]	{ 1.4D, 2CY}	Ag= .8/ -1.1	YES
67. YAX 6	9.11.16.10.13	669, Feb. 17	[6D 2CF]	{ 11.6D, 2CF}	Ag= 11.0/ +5.1	YES
68. YAX 11	9.16. 1. 0. 0	752, Apr. 29	[12D 5CF]	{ 11.6D, 5CF}	Ag= 11.0/ -0.9	YES
69. YAX 11	9.16. 1. 0. 0	752, Apr. 29	[12D 5CF]	{ 11.6D, 5CF}	Ag= 11.0/ -0.9	YES
70. YAX L21	9. 0.19. 2. 4	454, Oct. 15	[7D 3CS]	{ 8.2D, 3CS}	Ag= 7.6/ +0.6	YES
71. YAX L29	9.13.17.12.10	709, Aug. 23	[15D 5CS]	{ 13.8D, 5CS}	Ag= 13.2/ -1.7	YES
72. YAX L46	9.14. 1.17.14	713, Nov. 14	[14D 3CS]	{ 22.1D, 3CS}	Ag= 21.6/ +7.6	YES
73. YAX L56	9.15. 6.13. 1	738, Apr. 4	[11D 5CY]	{ 10.9D, 5CY}	Ag 10.4/ -0.6	YES

⁴ This one records the dark of the moon for 1C, while the computer program calculation calls for the second day of the second C. This is, therefore, an agreement.

⁵ This text records the dark of 2C, when the calculation wants first day of 3C. Its an another agreement.

⁶ This one may record the dark of the sixth lunation, instead of 1 or 2D of the 1st lunation. As on Steia 31, the form of C does not change as it should.

⁷ The form of the number with D is unique.

⁸ The head in C is eroded but can be determined from X.

⁹ This lunar series records the amount of time remaining before the next lunation—that is, one day lacking to 1C—rather than as the 29th day of 6C. For some reason, the form of C was not changed.

Monu	Date	Julian	Written	Required	Age and difference
Agreement +1 in the number					
1. BLK 5	8.18. 9.17. 18	406, May 14	[9D 5C?]	{ 11.0D, 4CY}	AG= 10.4/ 1.5 +1?
2. CPN Ant	9. 5. 7.12. 2	542, Jan. 25	[4D 3CS]	{ 22.6D, 2CS}	Ag= 22.1/ +18.1 +1
3. CPN T11	9.16.12. 5. 17	763, Jun. 28	[11D 6CS]	{ 13.4D, 5CS}	Ag= 12.8/ +1.8 +1
4. DPL 16	9.15. 4. 6. 4	735, Nov. 29	[10D 1CF]	{ 10.3D, 6CS}	Ag= 9.8/ -2 +1
5. KC Pan	9. 3.19. 3. 8	513, Dec. 28	[16D 4CY]	{ 15.8D, 3CY}	AG= 15.2/ -7 +1
6. NAR 23	9.13.18. 4. 18	710, Mar. 19	[15D 1C?]	{ 15.1D, 6CF}	Ag= 14.5/ -4 +1
7. PAL PT	9.10.11.17. 0	644, Nov. 2	[27D 2CY]	{ 27.2D, 1CY}	AG= 26.7/ -2 +1
8. PNG 1	9.12. 2. 0. 16	674, Jul. 4	[8D 3CS]	{ 25.5D, 2CS}	Ag= 25.0/ +17.0 +1
9. PUL D	9. 3. 0. 0. 0	495, Jan. 29	[17D 4C?]	{ 17.9D, 3CY}	Ag= 17.4/ +4 +1?
10. TIK 13	9. 2.13. 0. 0	488, Mar. 6	[17D 3CS]	{ 8.0D, 2CS}	Ag= 7.5/ -9.4 +1
11. TON Dsk	9.13.15. 0. 0	706, Dec. 27	[?D 3C?]	{ 18.3D, 2CF}	AG= 17.7/ -9.2 +1 ¹⁰
12. Wax 18	8.16. 0. 0. 0	357, Feb. 3	[25D 0C?]	{ 27.0D, 6CY}	AG= 26.1/ -1.1 +1
13. YAX L26	9.14.14.13. 17	726, Jun. 22	[13D 4CY]	{ 18.4D, 3CY}	Ag= 17.8/ +4.9 +1

Agreement with the number at -1

1. ASac 8	9. 9.15. 0. 0	628, Feb. 20	[10D 4C?]	{ 10.6D, 5CS}	AG= 10.0/ 8.0 -1?
2. ASac 9	9.10. 0. 0 . 0	633, Jan. 25	[8D 5CF]	{ 9.2D, 6CF}	AG= 8.7/ .7 -1
3. ASac 18	9. 9. 5. 0. 0	618, Apr. 13	[11D 2C?]	{ 13.3D, 3CF}	AG= 12.8/ 1.8 -1?
4. CHN TI	10. 2. 9. 1. 9	878, Jul. 26	[5D 5C?]	{ 23.3D, 6CS}	Ag= 22.8/ +17.8 -1
5. CPN 19	9.10.19.15. 0	652, Aug. 12	[4D 1C?]	{ 2.8D, 2CS}	AG= 2.3/ -1.6 -1?
6. CPN 170	9. 2. 6.17. 1	482, Mar. 19	[13D 5CY]	{ 14.3D, 6CY}	Ag= 13.7/ +.7 -1 ¹¹
7. CPN HS	9. 9.14.17. 5	628, Feb. 8	[23D 3CS]	{ 25.1D, 4CS}	AG= 24.6/ 1.6 -1
8. CPN I	9.12. 3.14. 0	676, Mar. 19	[0D 4CS]	{ 29.4D, 5CS}	AG= 28.9/ 0.0 -1
9. CPN M	9.16. 5. 0. 0	756, Apr. 8	[5D 5CS]	{ 4.6D, 6CS}	AG= 4.1/ -.9 -1
10. CPN T11	9.14.15. 0. 0	726, Sep. 13	[5D 5CY]	{ 12.8D, 6CY}	Ag= 12.2/ +7.2 -1
11. ICHP	9. 8. 0. 0. 0	593, Aug. 22	[19D 3CF]	{ 20.1D, 4CF}	Ag= 19.6/ +.6 -1
12. NAR 29	9.12.10. 5. 12	682, Aug. 27	[19D 6CF]	{ 19.0D, 1CY}	Ag= 18.4/ -27.4 -1
13. PAL 18	9.12. 6. 5. 8	678, Sep. 13	[19D 5CY]	{ 21.9D, 6CY}	AG= 21.4/ 2.4 -1
14. PNG 12	9.18. 5. 0. 0	795, Sep. 11	[23D 6CS]	{ 23.2D, 1CF}	Ag= 22.7/ -.3 -1
15. PNG 14	9.16. 6.17. 1	758, Mar. 10	[27D 4CF]	{ 26.4D, 5CF}	Ag= 25.8/ -1.1 -1
16. PNG 36	9.10. 6. 5. 9	639, Apr. 12	[4D 4CY]	{ 4.4D, 5CY}	Ag= 3.8/ -.1 -1
17. PNG 37	9.12. 0. 0. 0	672, Jun. 28	[27D 6C?]	{ 27.8D, 1CY}	Ag= 27.3/ +.3 -1?
18. PNG L2	9.11. 6. 2. 1	658, Oct. 21	[19D 5CS]	{ 19.4D, 6CS}	Ag= 18.9/ -1.3 -1
19. Q GPI	9. 9. 2. 0. 8	615, May 7	[5D 2CF]	{ 4.4D, 3CF}	Ag= 3.9/ -1.0 -1
20. QRG A	9.17. 5. 0. 0	775, Dec. 25	[26D 2CY]	{ 28.7D, 3CY}	Ag= 28.1/ +2.1 -1
21. WAX 22	9. 3.10. 0. 0	504, Dec. 7	[14D 4CF]	{ 15.2D, 5CF}	Ag= 14.6/ +.7 -1
22. WAX 22	9. 3.10. 0. 0	504, Dec. 7	[14D 4CF]	{ 15.2D, 5CF}	AG= 14.6/ .7 -1
23. YAX HS3	9.12. 8.13. 1	681, Feb. 2	[27D 5CF]	{ 9.1D, 6CF}	Ag= 8.5/ -18.4 -1
24. YAX L47	9. 4.11. 8. 16	526, Feb. 11	[12D 2CS]	{ 14.2D, 3CS}	Ag= 13.6/ +1.7 -1

Disagreements

¹⁰ This number with C may be two dots and a filler, but we can't tell from the drawing.

¹¹ This date comes from a badly battered monument, so that its reading is not entirely sure. The alternative is 9.5.19.17.1 (554, Mar. 1) which calls for 12.1D and 2C female.

Monu	Date	Julian	Written	Required	Age and difference	
1. ASac 4	9.10. 3.17. 0	636, Dec. 14	[11D 4CF]	{ 11.7D, 6CS}	AG= 11.2/ .2	No
2. BAL 7	9.16. 3. 5. 14	754, Aug. 11	[13D 1CF]	{ 18.8D, 3CS}	Ag= 18.2/ +5.2	No
3. BLN 1	9.14. 5. 0. 0	716, Nov. 4	[5D 4CY]	{ 15.5D, 4CS}	Ag= 15.0/ +10.0	No
4. CAY No	9.14.18.15. 1	730, Jun. 25	[6D 1CS]	{ 5.9D, 5CF}	Ag= 5.4/ -.6	No
5. CLK 43	9. 4. 0. 0. 0	514, Oct. 16	[10D 5C?]	{ 12.5D, 1CS}	Ag= 11.9/ +1.9	No
6. Clv Lin	9.14.19. 9. 12	731, Mar. 3	[5D 1CF]	{ 20.6D, 1CS}	Ag= 20.1/ 15.1	No ¹²
7. COB 1	9.14. 0. 0. 0	711, Dec. 1	[5D 5C?]	{ 16.9D, 3CY}	Ag= 16.3/ +11.3	No
8. CPN 5alt	9.11.15. 0. 0	667, Jul. 25	[27D 3CY]	{ 29.1D, 6CS}	Ag= 28.6/ +1.6	No
9. CPN 9	9. 6.10. 0. 0	564, Jan. 27	[27D 5CY]	{ 28.3D, 4CS}	AG= 27.8/ .8	No
10. CPN 13	9.11. 0. 0. 0	652, Oct. 11	[5D 3CY]	{ 3.8D, 4CS}	AG= 3.2/ -1.7	No
11. CPN 23	9.10.19.13. 0	652, Jul. 3	[5D ?C?]	{ 21.8D, 6CY}	AG= 21.3/ 16.3	No ¹³
12. CPN HS	9.13.18.17. 19	710, Dec. 5	[27D 1CS]	{ 10.3D, 3CS}	Ag= 9.7/ -17.2	No
13. CPN P	9. 9.10. 0. 0	623, Mar. 18	[9D 3CF]	{ 11.9D, 4CY}	AG= 11.4/ 2.4	No
14. CRC 21	9.13.10. 0. 0	702, Jan. 22	[19D 1CY]	{ 19.6D, 1CS}	Ag= 19.1/ +.1	No
15. ETZ 19	9.14. 0. 0. 0	711, Dec. 1	[21D 6C?]	{ 16.9D, 3CY}	Ag= 16.3/ -4.6	No
16. LFL 9	9.15. 0. 0. 0	731, Aug. 18	[11D 3CF]	{ 11.4D, 1CS}	Ag= 10.9/ -7.4	No
17. NAR 13	9.17. 0. 0. 0	771, Jan. 21	[27D 4CS]	{ .6D, 3CF}	Ag= 29.5/ +2.5	No (Ecl)
18. NIM 14	9.18. 0. 0. 0	790, Oct. 7	[28D ?C?]	{ 24.6D, 6CY}	Ag= 24.0/ -3.9	No?
19. PAL TFC	1.18. 5. 4. 0	-2359, Nov. 28	[10D 5CY]	{ 2.8D, 6CS}	Ag= 2.3/ -7.6	No ¹⁴
20. PAL TIea	9.12.18. 5. 16	690, Jul. 20	[?D 1CY]	{ 9.0D, 3CS}	Ag= 8.4/ +8.4	No
21. PAL TS	1.18. 5. 3. 6	-2359, Nov. 14	[26D 5CS]	{ 9.1D, 3CY}	Ag= 17.8/ -8.1	No
22. PNG 11	9.15. 0. 0. 0	731, Aug. 18	[10D 1CY]	{ 11.4D, 1CS}	Ag= 10.9/ +.9	No
23. PN 25	9. 8.10. 6. 16	603, Nov. 14	[3D 2C?]	{ 5.8D, 5CF}	AG= 5.2/ 2.2	No
24. PUL K	9.12. 0. 0. 0	672, Jun. 28	[1D 3CF]	{ 27.8D, 1CY}	Ag= 27.3/ +26.3	No ¹⁵
25. QRG 26	9. 2.18.13. 1	493, Oct. 27	[0D ?CF]	{ 1.9D, 6CY}	Ag= 1.4/ +1.3	No
26. RAZ Ptg	8.19. 1. 9. 13	417, Sep. 28	[11D 2CY]	{ 2.2D, 1CF}	AG= 1.67/ -9.3	No
27. TIK 6	9. 4. 0. 0. 0	514, Oct. 16	[13D 1CY]	{ 12.5D, 1CS}	Ag= 11.9/ -1.0	No
28. TIK TI	5. 0. 0. 0. 0	-1142, Dec. 9	[0D 5CY]	{ 28.4D, 4CF}	Ag= 27.9/ +27.9	No
29. TON 3	9.17. 0. 0. 0	771, Jan. 20	[20+D 5C?]	{ .5D, 3CF}	AG= 29.5/ ??	No, Ecl.
30. WAX IS	7. 5. 0. 0. 0	-255, Jan. 2	[3D 3CY]	{ 18.8D, 2CS}	AG= 18.3/ 15.3	No ¹⁶

Disagreement in number, but with agreement in the form of C

1. ASac 5	9.10.11.12. 17	644, Aug. 11	[3D 5CY]	{ 3.3D, 5CF}	AG= 2.8/ -.2	%No
2. BON Pan	9. 3. 3.16. 4	498, Dec. 3	[3D 3CY]	{ 4.5D, 3CF}	Ag= 3.9/ +.9	%No
3. CPN 10	9.10.19.13. 0	652, Jul. 3	[23D 6CF]	{ 21.8D, 6CY}	AG= 21.3/ -1.6	%No ¹⁷

¹² There is an error in the IS date that is hard to resolve. The stone seems to have 9.14.19.9.12 or 13 combined with 1 Ahaw and G3. This G3 is correct of the recorded long count and for 9.14.17.9.12 (729, Mar. 13). This long count calls for 8D 1C female, with is closer to the lunar series recorded.

¹³ The reading of IS date on this monument still very tentative, but this proposal seems to fit the data recorded in Morley's drawing the most closely.

¹⁴ This one is in error in the retrospective calculation the moon age and C, but we have not yet identified the type of error. If a 29.5-day moon is used, we would get 7D, 3C; with the Palenque moon formula it would be 30D, 5C; and, with the Copan formula, it would be 4D, 5C.

¹⁵ The number may be 1 with two fillers, and it is not possible to determine the face in C from the published photographs.

¹⁶ This is a retrospective date calculated far into the past.

¹⁷ Note that the D and number of C is correct.

Monu	Date	Julian	Written	Required	Age and difference	
4. CPN 20	9. 0.10. 0. 0	445, Oct. 18	[20+D 6CF]	{ 2.0D, 6CY}	AG= 1.5/ -??	%No
5. CPN N	9.16.10. 0. 0	761, Mar. 13	[27D 1CY]	{ 3.3D, 1CF}	AG= 2.7/ -5.0	%No
6. IXK 2	9.17. 9. 0. 13	779, Dec. 17	[5D 3CF]	{ 5.2D, 5CF}	Ag= 4.6/ -3	-2
7. PNG L3	9.15.18. 3. 13	749, Jul. 27	[9D 1CY]	{ 8.7D, 1CF}	Ag= 8.1/ -8.3	%No
8. QRG P'	9.18. 5. 0. 0	795, Sep. 11	[23D 4CF]	{ 23.2D, 1CF}	Ag= 22.7/ -3	*(dwg)
9. SAC 1	9.16.10. 0. 0	761, Mar. 13	[4D 1CY]	{ 3.3D, 1CF}	Ag= 2.7/ -1.2	%No
10. YAX 1	9.16.10. 0. 0	761, Mar. 13	[3D 1CY]	{ 3.3D, 1CF}	Ag= 2.7/ -3	%No

Disagreement between the female and male head, but agreement in number

1. ITZ 17	9.15. 4.15. 3	736, May 26	[13D 1CF]	{ 12.1D, 6CF}	Ag= 11.6/ -1.3	*No
2. PAL IS	9.18. 9. 4. 4	799, Nov. 13	[5D 1CS]	{ 11.6D, 5CS}	AG= 11.1/ 6.1	*No
3. QRG B	9.17.10. 0. 0.	780, Nov. 28	[27D 2CS]	{ 27.3D, 4CS}	AG= 26.7/ -3	*No ¹⁸
4. QRG J	9.16.15. 0. 0	766, Feb. 16	[4D 6CS]	{ 2.0D, 2CS}	Ag= 1.3/ -2.6	*No
5. QRG P	9.18. 5. 0. 0	795, Sep. 11	[3D 4CF]	{ 23.2D, 1CF}	Ag= 22.7/ +19.7	*No

Cannot read due to erosion

1. BAL 5	9. 7. 1. 6. 0	575, Mar. 30	[4D ?C?]	{ 3.6D, 5CY}	Ag= 3.1/ -9	???
2. COB 1	9.11. 0. 5. 9	653, Jan. 29	[?D ?C?]	{ 24.1D, 1CF}	Ag= 23.6/ +23.6	???
3. COB 1	9.12.10. 5. 12	682, Aug. 27	[4D ?C?]	{ 19.0D, 1CF}	Ag= 18.4/ +23.6	???
4. COB 1	13. 0. 0. 0. 0	-3113, Sep. 8	[23D ?C?]	{ 13.6D, 1CY}	Ag= 13.2/ -9.8	???
5. COB 16	9. 9. 4. 4. 7	617, Jul. 14	[7D ?C?]	{ 6.1D, 6CY}	Ag= 5.6/ -1.4	???
6. CPN 3	9.10.19. 5. 0	652, Jan. 25	[10D ?C?]	{ 9.5D, 1CF}	AG= 9.0/ -9	???
7. CPN 3	9.10.19. 5. 10	652, Feb. 4	[21D ?C?]	{ 19.5D, 1CY}	AG= 19.0/ 2.0	???
8. CPN 7	9. 9. 0. 0. 0	613, May 9	[11D ?CS]	{ 14.7D, 2CS}	AG= 14.1/ 3.2	???
9. CPN HS	9. 7. 5. 0. 8	578, Nov. 17	[7D ?C?]	{ 2.7D, 2CF}	Ag= 2.2/ +2.2	???
10. CPN T11	9.17. 2.12. 16	773, Sep. 22	[?D 6C?]	{ 2.0D, 6CS}	Ag= 1.5/ +1.4	???
11. CRC 3	9.16.12. 4. 6	763, May 28	[11D 6C?]	{ 11.9D, 4CS}	Ag= 11.4/ +.4	???
12. NIM 15	9.14.10. 0. 0	721, Oct. 9	[13D ?C?]	{ 14.2D, 5CF}	Ag= 13.6/ +.7	19
13. PNG 35	9.11. 9. 8. 6	662, Feb. 8	[14D ?C?]	{ 13.7D, 5CF}	Ag= 13.2/ -.7	???
14. PRU 27	9.15.10. 0. 0	741, Jun. 26	[9D ?CS]	{ 8.7D, 3CS}	Ag= 8.2/ -.8	???
15. TON 8	9.12.10. 0. 0	682, May 7	[21D ???]	{ 25.0D, 3CF}	Ag= 24.5/ +3.5	???
16. WAX 9	8.14.10. 3. 15	327, Sep. 23	[24D ?C?]	{ 21.2D, 3CY}	Ag= 20.7/ -3.25/	???
17. XUL 6	9. 3.17. 0. 0	511, Nov. 1	[25D 4C?]	{ 25.1D, 6CS}	AG= 24.5/ -.4	???

These have the same number, but the form of C is lost

18. ASac 12	9. 4.10. 0. 0	524, Aug. 24	[7D 3C?]	{ 9.7D, 3CS}	AG= 9.2/ 2.2	???
19. CAY L1	9.16. 0. 2. 16	751, Jun. 30	[3D 2C?]	{ 2.9D, 1CY}	Ag= 2.4/ -.6	???
20. IXK 1	9.18. 0. 0. 0	790, Oct. 7	[24D 6C?]	{ 24.6D, 6CY}	Ag= 24.0/ +6.7	???
21. NAR 18	9.14.15. 0. 0	726, Sep. 13	[13D 6C?]	{ 12.8D, 6CY}	Ag= 12.2/ -.7	???
22. TIK 4	8.17. 2.16. 17	379, Sep. 12	[0D 3C?]	{ 15.1D, 4CF}	Ag= 14.5/ +14.5	???

¹⁸ The number is an unusual full-figure glyph. It could well be four, but it has a *sak* sign in the headdress. Since the head variant of the number 2 and *sak* are interchangeable, we have read the number as two.

¹⁹ This one does not have a standard C form.

²⁰ The C has no number, but the X indicates the skull form of C.

²¹ Head in C is either the Young Male or the Moon Goddess.

Monu	Date	Julian	Written	Required	Age and difference
23. TON 28	9.11. 5. 0. 0	657, Sep. 15	[?D 5C?]	{ 2.4D, 5CF}	AG= 1.8/ -23.1 ???
24. TON 85	9.12.10. 0. 0	682, May 7	[?D 3C?]	{ 25.0D, 3CF}	AG= 24.5/ ?.? ???
25. TON 136	9.14. 5. 0. 0	716, Nov. 4	[15D 4C?]	{ 15.5D, 4CS}	AG= 15.0/ 15.0 ???
26. ZAP	9. 0. 0. 0. 0	435, Dec. 10	[?D 4C?]	{ 4.8D, 4CS}	Ag= 4.3/ +4.2 ???
Different System					
1. BON Po	9. 4. 6.14. 9	521, Jun. 30	[10D 9CY]	{ 10.4D, 6CY}	AG= 9.9/ -7.4 ***

Lunar Series in Alphabetical Order

Monu	-Date	Julian	Written	Required	Age and difference		
1. Zap1	8.19.10.2.9	426, Mar. 21	[?D 3C?]	{ 26.9D, 3CF}	AG= 26.4/	???	YES
2. Zap5	9.0.0.0.0	435, Dec. 10	[4D 4CS]	{ 4.8D, 4CS}	AG= 4.2/	.3	YES
3. Zap5	9.0.4.0.0	439, Nov. 19	[?D 4CY]	{ 27.3D, 4CY}	AG= 26.8/	???	YES
4. ARP1	9.9.0.0.0	613, May. 9	[14D 2C?]	{ 15.0D, 2CS}	AG= 14.2/	.8	YES
5. ASac 4	9.10.3.17.0	636, Dec. 14	[11D 4CF]	{ 11.7D, 6CS}	AG= 11.2/	.2	No
6. ASac 5	9.10.11.12.17	644, Aug. 11	[3D 5CY]	{ 3.3D, 5CF}	AG= 2.8/	-.2	%No
7. ASac 8	9.9.15.0.0	628, Feb. 20	[10D 4C?]	{ 10.6D, 5CS}	AG= 10.0/	8.0	-1?
8. ASac 9	9.10.0.0.0	633, Jan. 25	[8D 5CF]	{ 9.2D, 6CF}	AG= 8.7/	.7	-1
9. ASac 12	9.4.10.0.0	524, Aug. 24	[7D 3C?]	{ 9.7D, 3CS}	AG= 9.2/	2.2	???
10. ASac 18	9.9.5.0.0	618, Apr. 13	[11D 2C?]	{ 13.3D, 3CF}	AG= 12.8/	1.8	-1?
11. BAL 5	9.7.1.6.0	575, Mar. 30	[4D ?C?]	{ 3.6D, 5CY}	Ag= 3.1/	-.9	???
12. BAL 7	9.16.3.5.14	754, Aug. 11	[13D 1CF]	{ 18.8D, 3CS}	Ag= 18.2/	+5.2	No
13. BEJ 2	8.17.17.0.0	393, Jul. 23	[27D 1CS]	{ 28.3D, 1CS}	AG= 27.8/	.8	YES
14. BLK 5	8.18.9.17.18	406, May 14	[9D 5C?]	{ 11.0D, 4CY}	AG= 10.4/	1.5	+1?
15. BLN 1	9.14.5.0.0	716, Nov. 4	[5D 4CY]	{ 15.5D, 4CS}	Ag= 15.0/	+10.0	No
16. BON Pan	9.3.3.16.4	498, Dec. 3	[3D 3CY]	{ 4.5D, 3CF}	Ag= 3.9/	+9	%No
17. BON PO	9.4.6.14.9	521, Jun. 30	[10D 9CY]	{ 10.4D, 6CY}	Ag= 9.9/	-7.4	***
18. BON Ptg	9.18.0.3.4	790, Dec. 10	[?D 3CS]	{ 4.4D, 3CS}	AG= 29.0/	0.0	YES
19. BON Zur	9.14.11.5.8	723, Jan. 21	[10D 3CF]	{ 9.7D, 3CF}	Ag= 9.2/	-.8	YES
20. Brs Pn	9.8.0.0.0	593, Aug. 22	[17D 4C?]	{ 20.1D, 4CF}	AG= 19.6/	2.6	YES?
21. CAY DO	9.10.16.8.14	649, Apr. 24	[7D 3CY]	{ 7.6D, 3CY}	Ag= 7.0/	+6.5	YES
22. CAY L1	9.16.0.2.16	751, Jun. 30	[3D 2C?]	{ 2.9D, 1CY}	Ag= 2.4/	-.6	???
23. CAY No	9.14.18.15.1	730, Jun. 25	[6D 1CS]	{ 5.9D, 5CF}	Ag= 5.4/	-.6	No
24. CHN TI	10.2.9.1.9	878, Jul. 26	[5D 5C?]	{ 23.3D, 6CS}	Ag= 22.8/	+17.8	-1
25. CLK 43	9.4.0.0.0	514, Oct. 16	[10D 5C?]	{ 12.5D, 1CS}	Ag= 11.9/	+1.9	No
26. CLK 51	9.14.19.5.0	730, Dec. 1	[14D 4CY]	{ 17.2D, 4CY}	Ag= 16.7/	+2.7	YES
27. CLK 52	9.15.0.0.0	731, Aug. 18	[8D 1CS]	{ 11.4D, 1CS}	Ag= 10.9/	+2.9	YES
28. CLK 89	9.15.0.0.14	731, Sep. 1	[15D 1CF]	{ 25.4D, 1CF}	Ag= 24.9/	+9.9	YES
29. Clv Lin	9.14.19.9.12	731, Mar. 3	[5D 1CF]	{ 20.6D, 1CS}	Ag= 20.1/	15.1	No ¹
30. COB 1	9.11.0.5.9	653, Jan. 29	[?D ?C?]	{ 24.1D, 1CF}	Ag= 23.6/	+23.6	???
31. COB 1	9.12.10.5.12	682, Aug. 27	[4D ?C?]	{ 19.0D, 1CF}	Ag= 18.4/	+23.6	???
32. COB 1	9.14.0.0.0	711, Dec. 1	[5D 5C?]	{ 16.9D, 3CY}	Ag= 16.3/	+11.3	No
33. COB 1	13.0.0.0.0	-3113, Sep. 8	[23D ?C?]	{ 13.6D, 1CY}	Ag= 13.2/	-9.8	???
34. COB 6	9.9.10.0.0	623, Mar. 18	[10D ?CY]	{ 11.9D, 4CY}	Ag= 11.4/	+1.4	YES
35. COB 16	9.9.4.4.7	617, Jul. 14	[7D ?C?]	{ 6.1D, 6CY}	Ag= 5.6/	-1.4	???
36. COB 20	9.17.10.0.0	780, Nov. 28	[23D 4CS]	{ 27.3D, 4CS}	Ag= 26.7/	+3.8	YES
37. COB sarc	?		[?D ?CS]				
38. CPN 2	9.10.15.13.0	648, Jul. 24	[0D 5CS]	{ 28.8D, 5CS}	AG= 28.3/	.5	YES
39. CPN 3	9.10.19.5.0	652, Jan. 25	[10D ?C?]	{ 9.5D, 1CF}	AG= 9.0/	-.9	???
40. CPN 3	9.10.19.5.10	652, Feb. 4	[21D ?C?]	{ 19.5D, 1CY}	AG= 19.0/	2.0	???
41. CPN Salt	9.11.15.0.0	667, Jul. 25	[27D 3CY]	{ 29.1D, 6CS}	Ag= 28.6/	+1.6	No
42. CPN 6	9.12.10.0.0	682, May 7	[22D 3CF]	{ 25.0D, 3CF}	AG= 24.5/	2.5	YES

¹ There is an error in the IS date that is hard to resolve. The stone seems to have 9.14.19.9.12 or 13 combined with 1 Ahaw and G3. This G3 is correct of the recorded long count and for 9.14.17.9.12 (729, Mar. 13). This long count calls for 8D 1C female, with is closer to the lunar series recorded.

Monu	Date	Julian	Written	Required	Age and difference
43. CPN 7	9. 9. 0. 0. 0	613, May 9	[11D 0CS]	{ 14.7D, 2CS}	AG= 14.1/ 3.2 ???
44. CPN 9	9. 6. 10. 0. 0	564, Jan. 27	[27D 5CY]	{ 28.3D, 4CS}	AG= 27.8/ .8 No
45. CPN 10	9. 10. 19. 13. 0	652, Jul. 3	[23D 6CF]	{ 21.8D, 6CY}	AG= 21.3/ -1.6 %No ²
46. CPN 12	9. 10. 15. 0. 0	647, Nov. 7	[3D ?CY]	{ 5.1D, 3CY}	AG= 4.5/ 1.5 YES ³
47. CPN 13	9. 11. 0. 0. 0	652, Oct. 11	[5D 3CY]	{ 3.8D, 4CS}	AG= 3.2/ -1.7 No
48. CPN 19	9. 10. 19. 15. 0	652, Aug. 12	[4D 1C?]	{ 2.8D, 2CS}	AG= 2.3/ -1.6 -1?
49. CPN 20	9. 0. 10. 0. 0	445, Oct. 18	[20+D 6CF]	{ 2.0D, 6CY}	AG= 1.5/ -??0 %No
50. CPN 23	9. 10. 19. 13. 0	652, Jul. 3	[5D ?C?]	{ 21.8D, 6CY}	AG= 21.3/ 16.3 No ⁴
51. CPN 63	9. 0. 0. 0. 0	435, Dec. 10	[9D 4CS]	{ 4.8D, 4CS}	Ag= 4.3/ -4.7 YES
52. CPN 170	9. 2. 6. 17. 1	482, Mar. 19	[13D 5CY]	{ 14.3D, 6CY}	Ag= 13.7/ +.7 -1 ⁵
53. CPN A	9. 14. 19. 8. 0	731, Jan. 31	[15D 6CY]	{ 18.2D, 6CY}	AG= 17.6/ 2.6 YES
54. CPN Ant	9. 5. 7. 12. 2	542, Jan. 25	[4D 3CS]	{ 22.6D, 2CS}	Ag= 22.1/ +18.1 +1
55. CPN H'	9. 12. 8. 3. 9	680, Jul. 25	[22D 5CS]	{ 23.7D, 5CS}	AG= 23.2/ 1.2 YES
56. CPN HS	9. 13. 18. 17. 19	710, Dec. 5	[27D 1CS]	{ 10.3D, 3CS}	Ag= 9.7/ -17.2 No
57. CPN HS	9. 5. 19. 3. 0	553, May 24	[25D 4CY]	{ 26.3D, 4CY}	Ag= 25.8/ +.8 YES
58. CPN HS	9. 7. 5. 0. 8	578, Nov. 17	[7D ?C?]	{ 2.7D, 2CF}	Ag= 2.2/ +2.2 ???
59. CPN HS	9. 9. 14. 17. 5	628, Feb. 8	[23D 3CS]	{ 25.1D, 4CS}	AG= 24.6/ 1.6 -1
60. CPN HS	9. 13. 3. 6. 8	695, Jul. 6	[10?D 4CF]	{ 19.6D, 4CF}	AG= 19.0/ 9.1 YES
61. CPN I	9. 12. 3. 14. 0	676, Mar. 19	[0D 4CS]	{ 29.4D, 5CS}	AG= 28.9/ 0.0 -1
62. CPN J	9. 13. 10. 0. 0	702, Jan. 23	[18D 1CS]	{ 19.6D, 1CS}	AG= 19.1/ 1.12 YES
63. CPN M	9. 16. 5. 0. 0	756, Apr. 8	[5D 5CS]	{ 4.6D, 6CS}	AG= 4.1/ -.9 -1
64. CPN N	9. 16. 10. 0. 0	761, Mar. 13	[27D 1CY]	{ 3.3D, 1CF}	AG= 2.7/ -5.0 %No
65. CPN P	9. 9. 10. 0. 0	623, Mar. 18	[9D 3CF]	{ 11.9D, 4CY}	AG= 11.4/ 2.4 No
66. CPN T11	9. 14. 15. 0. 0	726, Sep. 13	[5D 5CY]	{ 12.8D, 6CY}	Ag= 12.2/ +7.2 -1
67. CPN T11	9. 16. 12. 5. 17	763, Jun. 28	[11D 6CS]	{ 13.4D, 5CS}	Ag= 12.8/ +1.8 +1
68. CPN T11	9. 17. 2. 12. 16	773, Sep. 22	[?D 6C?]	{ 2.0D, 6CS}	Ag= 1.5/ +1.4 ???
69. CRC 3	9. 16. 12. 4. 6	763, May 28	[11D 6C?]	{ 11.9D, 4CS}	Ag= 11.4/ +.4 ???
70. CRC 16	9. 5. 0. 0. 0	534, Jul. 3	[7D 5CY]	{ 7.0D, 5CY}	Ag= 6.5/ -.5 YES
71. CRC 21	9. 13. 10. 0. 0	702, Jan. 22	[19D 1CY]	{ 19.6D, 1CS}	Ag= 19.1/ +.1 No
72. DPL 2	9. 15. 4. 6. 4	735, Nov. 29	[10D 1CF]	{ 10.3D, 6CS}	Ag= 9.8/ -.2 +1
73. DPL 8	9. 12. 0. 10. 11	673, Jan. 25	[3D 3CS]	{ 2.6D, 3CS}	Ag= 17.7/ +14.7 YES
74. DPL 25	9. 14. 0. 0. 0	711, Dec. 1	[16D 3CY]	{ 16.9D, 3CY}	AG= 16.3/ .4 YES
75. DPL HS	9. 12. 10. 0. 0	682, May 7	[22D 3CF]	{ 25.0D, 3CF}	Ag= 24.5/ +2.6 YES
76. DPL HS	9. 12. 12. 11. 2	684, Dec. 4	[20D 5CS]	{ 22.1D, 5CS}	Ag= 21.6/ +1.6 YES
77. ETZ 18	9. 12. 0. 0. 0	672, Jun. 28	[0D 1CY]	{ 27.8D, 1CY}	Ag= 27.3/ +27.3 YES ⁶
78. ETZ 19	9. 14. 0. 0. 0	711, Dec. 1	[21D 6C?]	{ 16.9D, 3CY}	Ag= 16.3/ -4.6 No
79. ICHP	9. 8. 0. 0. 0	593, Aug. 22	[19D 3CF]	{ 20.1D, 4CF}	Ag= 19.6/ +.6 -1

² Note that the D and number of C is correct.

³ The number of the C is largely destroyed, but it could well be three. The other less likely alternative reading for the IS date is 9.10.19.6.0 with expected lunar data of 29.5D, 1CY. This particular reading does not fit as well the monument or the historical context.

⁴ The reading of IS date on this monument still very tentative, but this proposal seems to fit the data recorded in Morley's drawing the most closely.

⁵ This date comes from a badly battered monument, so that its reading is not entirely sure. The alternative is 9.5.19.17.1 (554, Mar. 1) which calls for 12.1D and 2C female.

⁶ This drawing is very bad, so that the number might be five rather than 1.

Monu	Date	Julian	Written	Required	Age and difference		
80.	ITZ 17	9.15. 4.15. 3	736, May 26	[13D 1CF]	{ 12.1D, 6CF}	Ag= 11.6/ -1.3	*No
81.	IXK 1	9.18. 0. 0. 0	790, Oct. 7	[24D 6C?]	{ 24.6D, 6CY}	Ag= 24.0/ +6.7	???
82.	IXK 2	9.17. 9. 0. 13	779, Dec. 17	[5D 3CF]	{ 5.2D, 5CF}	Ag= 4.6/ -.3	-2
83.	KC Pan	9. 3.19. 3. 8	513, Dec. 28	[16D 4CY]	{ 15.8D, 3CY}	AG= 15.2/ -.7	+1
84.	LFL 9	9.15. 0. 0. 0	731, Aug. 18	[11D 3CF]	{ 11.4D, 1CS}	Ag= 10.9/ -7.4	No
85.	NAA 1	9. 9.10. 0. 0	623, Mar. 18	[9D 3C?]	{ 11.9D, 4CY}	Ag= 11.4/ +2.4	YES ⁸
86.	Nar 8	9.18.10. 0. 0	800, Aug. 15	[21D 2CY]	{ 21.8D, 2CY}	Ag= 21.3/ +.3	YES
87.	Nar 13	9.17. 0. 0. 0	771, Jan. 21	[27D 4CS]	{ .6D, 3CF}	Ag= 29.5/ +2.5	No (Ecl)
88.	Nar 14	9.17.13. 4. 3	784, Feb. 4	[7D 2CF]	{ 9.1D, 2CF}	Ag= 8.5/ +1.5	YES
89.	NAR 18	9.14.15. 0. 0	726, Sep. 13	[13D 6C?]	{ 12.8D, 6CY}	Ag= 12.2/ -.7	???
90.	Nar 22	9.12.15.13. 7	688, Jan. 3	[25D 1C?]	{ 24.9D, 1CF}	Ag= 24.4/ -.5	YES
91.	Nar 23	9.13.18. 4. 18	710, Mar. 19	[15D 1C?]	{ 15.1D, 6CF}	Ag= 14.5/ -.4	+1
92.	Nar 24	9.12.10. 5. 12	682, Aug. 27	[18D 1CY]	{ 19.0D, 1CY}	Ag= 18.4/ -27.4	YES
93.	Nar 29	9.12.10. 5. 12	682, Aug. 27	[19D 6CF]	{ 19.0D, 1CY}	Ag= 18.4/ -27.4	-1
94.	Nar 30	9.14. 3. 0. 0	714, Nov. 15	[4D 4C?]	{ 4.3D, 4CY}	Ag= 3.7/ -.2	YES
95.	NIM 14	9.18. 0. 0. 0	790, Oct. 7	[28D ?C?]	{ 24.6D, 6CY}	Ag= 24.0/ -3.9	No?
96.	NIM 15	9.14.10. 0. 0	721, Oct. 9	[13D ?C?]	{ 14.2D, 5CF}	Ag= 13.6/ +.7	⁹
97.	PAL 18 jb	9.12. 6. 5. 8	678, Sep. 13	[19D 5CY]	{ 21.9D, 6CY}	AG= 21.4/ 2.4	-1
98.	PAL IS	9.18. 9. 4. 4	799, Nov. 13	[5D 1CS]	{ 11.6D, 5CS}	AG= 11.1/ 6.1	*No
99.	PAL looted	?		[15D 4CY]	{ ???		
100.	PAL Oliv	9.10.14. 5. 10	647, Mar. 2	[?D 6CS]	{ 20.8D, 6CS}	AG= 20.3/ ??	YES?
101.	PAL PT	9.14. 8.14. 15	720, Aug. 10	[0D 3CY]	{ 3.1D, 3CY}	AG= 2.1/ 2.1	YES
102.	PAL PT	9.10.11.17. 0	644, Nov. 2	[27D 2CY]	{ 27.2D, 1CY}	AG= 26.7/ -.2	+1
103.	PAL PT	9.13.10. 6. 8	702, May 30	[27D 6CS]	{ 3.64D, 6CS}	AG= 28.9/ -1.0	YES
104.	PAL T18 stc			[?? 2CY]			
105.	PAL T21	?					
106.	PAL TC	12.19.13. 4. 0	-3120, Jan. 2	[5D 2CF]	{ 24.7D, 2CF}	Ag= 24.2/ +19.2	YES
107.	PAL TFC	1.18. 5. 4. 0	-2359, Nov. 28	[10D 5CY]	{ 2.8D, 6CS}	Ag= 2.3/ -7.6	¹⁰
108.	PAL TFC jb	9.12.19.14. 12	692, Jan. 7	[11D 3CS]	{ 13.4D, 3CS}	AG= 12.9/ 1.9	YES
109.	PAL Tlea	9.12.18. 5. 16	690, Jul. 20	[?D 1CY]	{ 9.0D, 3CS}	Ag= 8.4/ +8.4	No
110.	PAL TS	1.18. 5. 3. 6	-2359, Nov. 14	[26D 5CS]	{ 9.1D, 3CY}	Ag= 17.8/ -8.1	No
111.	PAL TS jb	9.12.19.14. 12	692, Jan. 7	[11D 3CS]	{ 13.4D, 3CS}	AG= 12.9/ 1.9	YES
112.	Pal TS stc	9.12.19.14. 12	692, Jan. 7	[missing]			
113.	PNG 1	9.12. 2. 0. 16	674, Jul. 4	[8D 3CS]	{ 25.5D, 2CS}	Ag= 25.0/ +17.0	+1
114.	PNG 3	9.12. 2. 0. 16	674, Jul. 4	[26D 2CS]	{ 25.5D, 2CS}	Ag= 25.0/ -.9	YES
115.	PNG 3	9.14. 0. 0. 0	711, Dec. 1	[18D 3C?]	{ 16.9D, 3CY}	Ag= 16.3/ -1.6	YES
116.	PNG 8	9.11.12. 7. 2	665, Dec. 29	[6D 5CF]	{ 6.6D, 5CF}	Ag= 6.1/ +.1	YES
117.	PNG 10	9.15.10. 0. 0	741, Jun. 26	[9D 3CS]	{ 8.7D, 3CS}	Ag= 8.2/ -.8	YES
118.	PNG 11	9.15. 0. 0. 0	731, Aug. 18	[10D 1CY]	{ 11.4D, 1CS}	Ag= 10.9/ +.9	No

⁷ Head in C is either the Young Male or the Moon Goddess.

⁸ We determined the form of C from X.

⁹ This one does not have a standard C form.

¹⁰ This one is in error in the retrospective calculation the moon age and C, but we have not yet identified the type of error. If a 29.5-day moon is used, we would get 7D, 3C; with the Palenque moon formula it would be 30D, 5C; and, with the Copan formula, it would be 4D, 5C.

Monu	Date	Julian	Written	Required	Age and difference	
119. PNG 12	9.18. 5. 0. 0	795, Sep. 11	[23D 6CS]	{ 23.2D, 1CF}	Ag= 22.7/	-1
120. PNG 14	9.16. 6.17. 1	758, Mar. 10	[27D 4CF]	{ 26.4D, 5CF}	Ag= 25.8/	-1
121. PNG 35	9.11. 9. 8. 6	662, Feb. 8	[14D ?C?]	{ 13.7D, 5CF}	Ag= 13.2/	???
122. PNG 36	9.10. 6. 5. 9	639, Apr. 12	[4D 4CY]	{ 4.4D, 5CY}	Ag= 3.8/	-1
123. PNG 37	9.12. 0. 0. 0	672, Jun. 28	[27D 6C?]	{ 27.8D, 1CY}	Ag= 27.3/	-1?
124. PNG L2	9.11. 6. 2. 1	658, Oct. 21	[19D 5CS]	{ 19.4D, 6CS}	Ag= 18.9/	-1
125. PNG L3	9.15.18. 3.13	749, Jul. 27	[9D 1CY]	{ 8.7D, 1CF}	Ag= 8.1/	%No
126. PN 25	9. 8.10. 6.16	603, Nov. 14	[3D 2C?]	{ 5.8D, 5CF}	AG= 5.2/	No
127. POM Pan			[missing]			
128. PRU 27	9.15.10. 0. 0	741, Jun. 26	[9D ?CS]	{ 8.7D, 3CS}	Ag= 8.2/	11
129. PUL D	9.10.15. 0. 0	647, Nov. 7	[23D 3CY]	{ 5.1D, 3CY}	Ag= 4.6/	YES
130. PUL D	9. 3. 0. 0. 0	495, Jan. 29	[17D 4C?]	{ 17.9D, 3CY}	Ag= 17.4/	+1?
131. PUL K	9.12. 0. 0. 0	672, Jun. 28	[1D 3CF]	{ 27.8D, 1CY}	Ag= 27.3/	No ¹²
132. PUL O	9. 7. 0. 0. 0	573, Dec. 5	[25D 6CY]	{ 25.6D, 6CY}	Ag= 25.1/	YES
133. Q GP1	9. 9. 2. 0. 8	615, May 7	[5D 2CF]	{ 4.4D, 3CF}	Ag= 3.9/	-1
134. Q GP3	?		[15D 1CY]			
135. Q GP4	9.12.18. 1. 1	690, Apr. 16	[2D 6CY]	{ 2.6D, 6CY}	Ag= 2.0/	YES
136. Q GP9	9.16. 7. 7. 17	758, Sep. 8	[27D, 5CY]	{ 25.0D 5CY}	Ag= 24.7/	YES
137. QRG 0	9.17.14.16.18	785, Oct. 11	[0D 5CF]	{ 4.0D, 5CF}	Ag= 3.4/	YES
138. QRG 26	9. 2.18.13. 1	493, Oct. 27	[0D ?CF]	{ 1.9D, 6CY}	Ag= 1.4/	No
139. QRG A	9.17. 5. 0. 0	775, Dec. 25	[26D 2CY]	{ 28.7D, 3CY}	Ag= 28.1/	-1
140. QRG B	9.17.10. 0. 0.	780, Nov. 28	[27D 2CS]	{ 27.3D, 4CS}	AG= 26.7/	*No ¹³
141. QRG De	9.16.15. 0. 0	766, Feb. 16	[0D 1CS]	{ 1.9D, 2CS}	Ag= 1.3/	14
142. QRG Dw	9.16.13. 4.17	764, Jun. 2	[4D 4CY]	{ 28.5D, 4CY}	Ag= 28.0/	YES
143. QRG Ee	9.17. 0. 0. 0	771, Jan. 21	[0D 2CF]	{ .6D, 3CF}	Ag= 29.5/	(Ecl) ¹⁵
144. QRG Ew	9.14.13. 4.17	725, Dec. 29	[7D 3CY]	{ 10.0D, 3CY}	Ag= 9.4/	YES
145. QRG F	9.16.10. 0. 0	761, Mar. 13	[0D 6CF]	{ 3.3D, 1CF}	Ag= 2.7/	16
146. QRG G	9.17.15. 0. 0	785, Nov. 2	[23D 5CF]	{ 25.9D, 5CF}	Ag= 25.4/	YES
147. QRG HS	9.19. 0. 0. 0	810, Jun. 24	[?D 4CF]	{ 19.1D, 4CF}	AG= 18.6/	YES ¹⁷
148. QRG I	9.18.10. 0. 0	800, Aug. 15	[16D 2CY]	{ 21.8D, 2CY}	AG= 21.3/	YES
149. QRG J	9.16.15. 0. 0	766, Feb. 16	[4D 6CS]	{ 2.0D, 2CS}	Ag= 1.3/	*No
150. QRG P'	9.18. 5. 0. 0	795, Sep. 11	[23D 4CF]	{ 23.2D, 1CF}	Ag= 22.7/	?? (dwg)
151. QRG P	9.18. 5. 0. 0	795, Sep. 11	[3D 4CF]	{ 23.2D, 1CF}	Ag= 22.7/	*No
152. QRG S	9.15.15. 0. 0	746, May 31	[5D 4C?]	{ 7.4D, 4CF}	AG= 6.8/	YES ¹⁸
153. RAZ Ptg	8.19. 1. 9.13	417, Sep. 28	[11D 2CY]	{ 2.2D, 1CF}	AG= 1.67/	No

¹¹ The C has no number, but the X indicates the skull form of C.

¹² The number may be 1 with two fillers, and it is not possible to determine the face in C from the published photographs.

¹³ The number is an unusual full-figure glyph. It could well be four, but it has a *sak* sign in the headdress. Since the head variant of the number 2 and *sak* are interchangeable, we have read the number as two.

¹⁴ This one records the dark of the moon for 1C, while the computer program calculation calls for the second day of the second C. This is, therefore, an agreement.

¹⁵ This text records the dark of 2C, when the calculation wants first day of 3C. Its an another agreement.

¹⁶ This one may record the dark of the sixth lunation, instead of 1 or 2D of the 1st lunation. As on Stela 31, the form of C does not change as it should.

¹⁷ The form of the number with D is unique.

¹⁸ The head in C is eroded but can be determined from X.

Monu	Date	Julian	Written	Required	Age and difference	
154. RES HS1	9. 4. 14. 10. 4	529, Feb. 24	[0D 4CS]	{ 29.5D, 4CS}	Ag= 29.0/ +29.0	YES
155. RES HS			[?D 3CY]			
156. SAC 1	9. 16. 10. 0. 0	761, Mar. 13	[4D 1CY]	{ 3.3D, 1CF}	Ag= 2.7/ -1.2	%No
157. SAC 9	9. 18. 0. 0. 0	790, Oct. 7	[23D 6CY]	{ 25.0D, 6CY}	Ag= 24.1/ 1.1	YES
158. SBL HS	9. 15. 13. 13. 0	745, Feb. 25	[19D 6CF]	{ 19.8D, 6CF}	Ag= 19.3/ +.3	YES
159. Tik 4	8. 17. 2. 16. 17	379, Sep. 12	[0D 3C?]	{ 15.1D, 4CF}	Ag= 14.5/ +14.5	???
160. Tik 6	9. 4. 0. 0. 0	514, Oct. 16	[13D 1CY]	{ 12.5D, 1CS}	Ag= 11.9/ -1.0	No
161. Tik 12	9. 4. 13. 0. 0	527, Aug. 9	[0D 3CS]	{ 26.6D, 3CS}	Ag= 26.1/ +26.1	YES
162. Tik 13	9. 2. 13. 0. 0	488, Mar. 6	[17D 3CS]	{ 8.0D, 2CS}	Ag= 7.5/ -9.4	+1
163. Tik 23	9. 3. 9. 13. 3	504, Sep. 1	[6D 2CF]	{ 6.8D, 2CF}	Ag= 6.2/ +.3	YES
164. Tik 31	9. 0. 10. 0. 0	445, Oct. 18	[29D 1CY]	{ 2.1D, 6CY}	Ag= 1.5/ -27.4	¹⁹
165. TIK BC	8. 17. 1. 4. 12	378, Jan. 16	[28D 1CF]	{ 30.2D, 1CF}	Ag= .2/ -27.8	YES
166. Tik TI	5. 0. 0. 0. 0	-1142, Dec. 9	[0D 5CY]	{ 28.4D, 4CF}	Ag= 27.9/ +27.9	No
167. TON 3	9. 17. 0. 0. 0	771, Jan. 20	[20+D 5C?]	{ .5D, 3CF}	AG= 29.5/ ??	No, Ecl.
168. Ton 8	9. 12. 10. 0. 0	682, May 7	[21D ???]	{ 25.0D, 3CF}	Ag= 24.5/ +3.5	—
169. Ton 9	? . ? . ? . ? . ?		[20D 3C?]			
170. TON 9	9. 11. 0. 0. 0	652, Oct. 11	[20+D 3CS]	{ 3.7D, 4CS}	AG= 3.2/ ??	YES
171. TON 28	9. 11. 5. 0. 0	657, Sep. 15	[?D 5C?]	{ 2.4D, 5CF}	AG= 1.8/ -23.1	???
172. TON 85	9. 12. 10. 0. 0	682, May 7	[?D 3C?]	{ 25.0D, 3CF}	AG= 24.5/ ??	???
173. TON 136	9. 14. 5. 0. 0	716, Nov. 4	[15D 4C?]	{ 15.5D, 4CS}	AG= 15.0/ 15.0	???
174. Ton 138	? . ? . ? . ? . ?		[7D 3CY]			
175. TON Dsk	9. 13. 15. 0. 0	706, Dec. 27	[?D 3C?]	{ 18.3D, 2CF}	AG= 17.7/ -9.2	+1 ²⁰
176. WAX 9	8. 14. 10. 3. 15	327, Sep. 23	[24D ?C?]	{ 21.2D, 3CY}	Ag= 20.7/ -3.2	???
177. WAX 18	8. 16. 0. 0. 0	357, Feb. 3	[25D 0C?]	{ 27.0D, 6CY}	AG= 26.1/ -1.1	+1
178. WAX 22	9. 3. 10. 0. 0	504, Dec. 7	[14D 4CF]	{ 15.2D, 5CF}	AG= 14.6/ .7	-1
179. WAX IS	7. 5. 0. 0. 0	-255, Jan. 2	[3D 3CY]	{ 18.8D, 2CS}	AG= 18.3/ 15.3	No ²¹
180. XCA TI	9. 15. 12. 6. 9	743, Oct. 23	[2D 2CY]	{ 1.4D, 2CY}	Ag= .8/ -1.1	YES
181. XUL 6	9. 3. 17. 0. 0	511, Nov. 1	[25D 4C?]	{ 25.1D, 6CS}	AG= 24.5/ -.4	???
182. YAX 1	9. 16. 10. 0. 0	761, Mar. 13	[3D 1CY]	{ 3.3D, 1CF}	Ag= 2.7/ -.3	%No
183. YAX 6	9. 11. 16. 10. 13	669, Feb. 17	[6D 2CF]	{ 11.6D, 2CF}	Ag= 11.0/ +5.1	YES
184. YAX 11	9. 16. 1. 0. 0	752, Apr. 29	[12D 5CF]	{ 11.6D, 5CF}	Ag= 11.0/ -.9	YES
185. YAX 11	9. 16. 1. 0. 0	752, Apr. 29	[12D 5CF]	{ 11.6D, 5CF}	Ag= 11.0/ -.9	YES
186. YAX HS3	9. 12. 8. 13. 1	681, Feb. 2	[27D 5CF]	{ 9.1D, 6CF}	Ag= 8.5/ -18.4	-1
187. YAX L21	9. 0. 19. 2. 4	454, Oct. 15	[7D 3CS]	{ 8.2D, 3CS}	Ag= 7.6/ +.6	YES
188. YAX L26	9. 14. 14. 13. 17	726, Jun. 22	[13D 4CY]	{ 18.4D, 3CY}	Ag= 17.8/ +4.9	+1
189. YAX L29	9. 13. 17. 12. 10	709, Aug. 23	[15D 5CS]	{ 13.8D, 5CS}	Ag= 13.2/ -1.7	YES
190. YAX L46	9. 14. 1. 17. 14	713, Nov. 14	[14D 3CS]	{ 22.1D, 3CS}	Ag= 21.6/ +7.6	YES
191. YAX L47	9. 4. 11. 8. 16	526, Feb. 11	[12D 2CS]	{ 14.2D, 3CS}	Ag= 13.6/ +1.7	-1
192. YAX L56	9. 15. 6. 13. 1	738, Apr. 4	[11D 5CY]	{ 10.9D, 5CY}	Ag 10.4/ -.6	YES

¹⁹ This lunar series records the amount of time remaining before the next lunation—that is, one day lacking to 1C—rather than as the 29th day of 6C. For some reason, the form of C was not changed.

²⁰ This number with C may be two dots and a filler, but we can't tell from the drawing.

²¹ This is a retrospective date calculated far into the past.

Lunar Series Arranged by Chronology

Date	Julian	Monu	Written	Required	AGe and difference
1. 13. 0. 0. 0. 0	-3113, Sep. 8	COB 1	[23.0D ?C?]	{13.6D, 1CY}	AG=13.2/ -9.8 ???
2. 1.18. 5. 3. 6	-2359, Nov. 14	PAL TS	[26.0D 5CS]	{ 9.1D, 3CY}	AG=17.8/ -8.1 No
3. 1.18. 5. 4. 0	-2359, Nov. 28	PAL TFC	[10.0D 5CY]	{ 2.8D, 6CS}	AG=2.3/ -7.6 ¹
4. 2.19.13. 4. 0	-3120, Jan. 2	PAL TC	[5.0D 2CF]	{24.7D, 2CF}	AG=24.2/ +19.2 YES
5. 5. 0. 0. 0. 0	-1142, Dec. 9	Tik TI	[0.0D 5CY]	{28.4D, 4CF}	AG=27.9/ +27.9 No
6. 7. 5. 0. 0. 0	-255, Jan. 2	WAX IS	[3.0D 3CY]	{ 18.8D, 2CS}	AG= 18.3/ 15.3 No ²
7. 8.14.10. 3.15	327, Sep. 23	WAX 9	[24.0D ?C?]	{ 21.2D, 3CY}	AG= 20.7/ -3.2 ???
8. 8.16. 0. 0. 0	357, Feb. 3	Wax 18	[25.0D 0C?]	{27.0D, 6CY}	AG=26.1/ -1.1 +1
9. 8.17.17. 0. 0	393, Jul. 23	BEJ 2	[27.0D 1CS]	{ 28.3D, 1CS}	AG= 27.8/ .8 YES
10. 8.17. 1. 4.12	378, Jan. 16	TIK BC	[28.0D 1CF]	{30.2D, 1CF}	AG= .2/ -27.8 YES
11. 8.17. 2.16.17	379, Sep. 12	Tik 4	[?.0D 3C?]	{15.1D, 4CF}	AG=14.5/ ?? ???
12. 8.18. 9.17.18	406, May 14	BLK 5	[9.0D 5C?]	{11.0D, 4CY}	AG= 10.4/ 1.5 +1?
13. 8.19. 1. 9.13	417, Sep. 28	RAZ Ptg	[11.0D 2CY]	{ 2.2D, 1CF}	AG= 1.6/ -9.3 No
14. 8.19.10. 2. 9	426, Mar. 21	ZAP 1	[?.?D 3C?]	{ 26.9D, 3CF}	AG= 26.4/ ?? YES
15. 9. 0.10. 0. 0	445, Oct. 18	Tik 31	[29.0D 1CY]	{ 2.1D, 6CY}	AG=1.5/ -27.4 ³
16. 9. 0.10. 0. 0	445, Oct. 18	CPN 20	[20+.0D 6CF]	{ 2.0D, 6CY}	AG= 1.5/ -?.? %No
17. 9. 0.19. 2. 4	454, Oct. 15	YAX L21	[7.0D 3CS]	{ 8.2D, 3CS}	AG=7.6/ +.6 YES
18. 9. 0. 0. 0. 0	435, Dec. 10	CPN 63	[9.0D 4CS]	{ 4.8D, 4CS}	AG=4.3/ -4.7 YES
19. 9. 0. 0. 0. 0	435, Dec. 10	ZAP 5	[4.0D 4CS]	{ 4.8D, 4CS}	AG=4.3/ +.8 YES
20. 9. 0. 4. 0. 0	439, Nov. 19	ZAP 5	[?.?D 4CY]	{ 27.3D, 4CY}	AG= 26.8/ ?? YES
21. 9. 2.13. 0. 0	488, Mar. 6	Tik 13	[17.0D 3CS]	{ 8.0D, 2CS}	AG=7.5/ -9.4 +1
22. 9. 2.18.13. 1	493, Oct. 27	QRG 26	[0.0D ?CF]	{ 1.9D, 6CY}	AG=1.4/ +1.3 No
23. 9. 2. 6.17. 1	482, Mar. 19	CPN 170	[13.0D 5CY]	{14.3D, 6CY}	AG=13.7/ +.7 -1 ⁴
24. 9. 3. 0. 0. 0	495, Jan. 29	PUL D	[17.0D 4C?]	{17.9D, 3CY}	AG=17.4/ +.4 +1?
25. 9. 3. 3.16. 4	498, Dec. 3	BON Pan	[3.0D 3CY]	{ 4.5D, 3CF}	AG=3.9/ +.9 %No
26. 9. 3. 9.13. 3	504, Sep. 1	Tik 23	[6.0D 2CF]	{ 6.8D, 2CF}	AG=6.2/ +.3 YES
27. 9. 3.10. 0. 0	504, Dec. 7	WAX 22	[14.0D 4CF]	{15.2D, 5CF}	AG= 14.6/ .7 -1
28. 9. 3.10. 0. 0	504, Dec. 7	WAX 22	[14.0D 4CF]	{15.2D, 5CF}	AG=14.6/ +.7 -1
29. 9. 3.17. 0. 0	511, Nov. 1	XUL 6	[25.0D 4C?]	{ 25.1D, 6CS}	AG= 24.5/ -.4 ???
30. 9. 3.19. 3. 8	513, Dec. 28	KC Pan	[16.0D 4CY]	{ 15.8D, 3CY}	AG= 15.2/ -.7 +1
31. 9. 4. 0. 0. 0	514, Oct. 16	Tik 6	[13.0D 1CY]	{12.5D, 1CS}	AG=11.9/ -1.0 No
32. 9. 4. 0. 0. 0	514, Oct. 16	CLK 43	[10.0D 5C?]	{12.5D, 1CS}	AG=11.9/ +1.9 No
33. 9. 4. 6.14. 9	521, Jun. 30	BON PO	[10.0D 9CY]	{10.4D, 6CY}	AG=9.9/ -7.4 ***
34. 9. 4.10. 0. 0	524, Aug. 24	ASac 12	[7.0D 3C?]	{ 9.7D, 3CS}	AG= 9.2/ 2.2 ???
35. 9. 4.11. 8.16	526, Feb. 11	YAX L47	[12.0D 2CS]	{14.2D, 3CS}	AG=13.6/ +1.7 -1
36. 9. 4.13. 0. 0	527, Aug. 9	Tik 12	[0.0D 3CS]	{26.6D, 3CS}	AG=26.1/ +26.1 YES

¹ This one is in error in the retrospective calculation the moon age and C, but we have not yet identified the type of error. If a 29.5-day moon is used, we would get 7D, 3C; with the Palenque moon formula it would be 30D, 5C; and, with the Copan formula, it would be 4D, 5C.

² This is a retrospective date calculated far into the past.

³ This lunar series records the amount of time remaining before the next lunation—that is, one day lacking to 1C—rather than as the 29th day of 6C. For some reason, the form of C was not changed.

⁴ This date comes from a badly battered monument, so that its reading is not entirely sure. The alternative is 9.5.19.17.1 (554, Mar. 1) which calls for 12.1D and 2C female.

Date	Julian	Monu	Written	Required	Age and difference	
37. 9. 4. 14. 10. 4	529, Feb. 24	RES HS	[0.0D 4CS]	{29.5D, 4CS}	AG=29.0/ +29.0	YES
38. 9. 5. 19. 3. 0	553, May 24	CPN HS	[25.0D 4CY]	{26.3D, 4CY}	AG=25.8/ +.8	YES
39. 9. 5. 0. 0. 0	534, Jul. 3	CRC 16	[7.0D 5CY]	{ 7.0D, 5CY}	AG=6.5/ -.5	YES
40. 9. 5. 7. 12. 2	542, Jan. 25	CPN Ant	[4.0D 3CS]	{22.6D, 2CS}	AG=22.1/ +18.1	+1
41. 9. 6. 10. 0. 0	564, Jan. 27	CPN 9	[27.0D 5CY]	{ 28.3D, 4CS}	AG= 27.8/ .8	No
42. 9. 7. 0. 0. 0	573, Dec. 5	PUL O	[25.0D 6CY]	{25.6D, 6CY}	AG=25.1/ +.1	YES
43. 9. 7. 1. 6. 0	575, Mar. 30	BAL 5	[4.0D ?C?]	{ 3.6D, 5CY}	AG=3.1/ -.9	???
44. 9. 7. 5. 0. 8	578, Nov. 17	CPN HS	[7.0D ?C?]	{ 2.7D, 2CF}	AG=2.2/ +2.2	???
45. 9. 8. 0. 0. 0	593, Aug. 22	ICHP	[19.0D 3CF]	{20.1D, 4CF}	AG=19.6/ +.6	-1
46. 9. 8. 0. 0. 0	593, Aug. 22	Brs Pn	[17.0D 4C?]	{ 20.1D, 4CF}	AG= 19.6/ 2.6	YES?
47. 9. 8. 10. 6. 16	603, Nov. 14	PN 25	[3.0D 2C?]	{ 5.8D, 5CF}	AG= 5.2/ 2.2	No
48. 9. 9. 0. 0. 0	613, May 9	CPN 7	[11.0D 0CS]	{ 14.7D, 2CS}	AG= 14.1/ 3.2	???
49. 9. 9. 0. 0. 0	613, May 9	ARP 1	[14.0D 2C?]	{15.0D, 2CS}	AG= 14.2/ .8	YES
50. 9. 9. 2. 0. 8	615, May 7	Q GP1	[5.0D 2CF]	{ 4.4D, 3CF}	AG=3.9/ -1.0	-1
51. 9. 9. 4. 4. 7	617, Jul. 14	COB 16	[7.0D ?C?]	{ 6.1D, 6CY}	AG=5.6/ -1.4	???
52. 9. 9. 5. 0. 0	618, Apr. 13	ASac 18	[11.0D 2C?]	{ 13.3D, 3CF}	AG= 12.8/ 1.8	-1?
53. 9. 9. 10. 0. 0	623, Mar. 18	CPN P	[9.0D 3CF]	{ 11.9D, 4CY}	AG= 11.4/ 2.4	No
54. 9. 9. 10. 0. 0	623, Mar. 18	NAA 1	[9.0D 3C?]	{11.9D, 4CY}	AG=11.4/ +2.4	YES ⁵
55. 9. 9. 10. 0. 0	623, Mar. 18	COB 6	[10.0D ?CY]	{11.9D, 4CY}	AG=11.4/ +1.4	YES
56. 9. 9. 14. 17. 5	628, Feb. 8	CPN HS	[23.0D 3CS]	{ 25.1D, 4CS}	AG= 24.6/ 1.6	-1
57. 9. 9. 15. 0. 0	628, Feb. 20	ASac 8	[10.0D 4C?]	{ 10.6D, 5CS}	AG= 10.0/ 8.0	-1?
58. 9. 10. 0. 0. 0	633, Jan. 25	ASac 9	[8.0D 5CF]	{ 9.2D, 6CF}	AG= 8.7/ .7	-1
59. 9. 10. 3. 17. 0	636, Dec. 14	ASac 4	[11.0D 4CF]	{ 11.7D, 6CS}	AG= 11.2/ .2	No
60. 9. 10. 6. 5. 9	639, Apr. 12	PNG 36	[4.0D 4CY]	{ 4.4D, 5CY}	AG=3.8/ -.1	-1
61. 9. 10. 11. 12. 17	644, Aug. 11	ASac 5	[3.0D 5CY]	{ 3.3D, 5CF}	AG= 2.8/ -.2	%No
62. 9. 10. 11. 17. 0	644, Nov. 2	PAL PT	[27.0D 2CY]	{ 27.2D, 1CY}	AG= 26.7/ -.2	+1
63. 9. 10. 14. 5. 10	647, Mar. 2	PAL Olv	[?.0D 6CS]	{ 20.8D, 6CS}	AG= 20.3/ ??	YES?
64. 9. 10. 15. 0. 0	647, Nov. 7	CPN 12	[3.0D ?CY]	{ 5.1D, 3CY}	AG= 4.5/ 1.5	YES ⁶
65. 9. 10. 15. 13. 0	648, Jul. 24	CPN 2	[0.0D 5CS]	{28.8D, 5CS}	AG=28.3/ .5	YES
66. 9. 10. 15. 0. 0	647, Nov. 7	PUL D	[23.0D 3CY]	{ 5.1D, 3CY}	AG=4.6/ -18.3	YES
67. 9. 10. 16. 8. 14	649, Apr. 24	CAY DO	[7.0D 3CY]	{ 7.6D, 3CY}	AG=7.0/ +6.5	YES
68. 9. 10. 19. 13. 0	652, Jul. 3	CPN 23	[5.0D ?C?]	{ 21.8D, 6CY}	AG= 21.3/ 16.3	No ⁷
69. 9. 10. 19. 13. 0	652, Jul. 3	CPN 10	[23.0D 6CF]	{ 21.8D, 6CY}	AG= 21.3/ -1.6	%No ⁸
70. 9. 10. 19. 15. 0	652, Aug. 12	CPN 19	[4.0D 1C?]	{ 2.8D, 2CS}	AG= 2.3/ -1.6	-1?
71. 9. 10. 19. 5. 0	652, Jan. 25	CPN 3	[10.0D ?C?]	{ 9.5D, 1CF}	AG= 9.0/ -.9	???
72. 9. 10. 19. 5. 10	652, Feb. 4	CPN 3	[21.0D ?C?]	{ 19.5D, 1CY}	AG= 19.0/ 2.0	???
73. 9. 11. 0. 0. 0	652, Oct. 11	CPN 13	[5.0D 3CY]	{ 3.8D, 4CS}	AG= 3.2/ -1.7	No
74. 9. 11. 0. 0. 0	652, Oct. 11	TON 9	[20+.0D 3CS]	{ 3.7D, 4CS}	AG= 3.2/ ??	YES
75. 9. 11. 0. 5. 9	653, Jan. 29	COB 1	[?.0D ?C?]	{24.1D, 1CF}	AG=23.6/ +23.6	???

⁵ We determined the form of C from X.

⁶ The number of the C is largely destroyed, but it could well be three. The other less likely alternative reading for the IS date is 9.10.19.6.0 with expected lunar data of 29.5D, 1CY. This particular reading does not fit as well the monument or the historical context.

⁷ The reading of IS date on this monument still very tentative, but this proposal seems to fit the data recorded in Morley's drawing the most closely.

⁸ Note that the D and number of C is correct.

Date	Julian	Monu	Written	Required	Age and difference
76.	9.11.5.0.0	657, Sep. 15	TON 28	[?.0D 5C?] { 2.4D, 5CF}	AG= 1.8/ -23.1 ???
77.	9.11.6.2.1	658, Oct. 21	PNG L2	[19.0D 5CS] {19.4D, 6CS}	AG=18.9/ -1.3 -1
78.	9.11.9.8.6	662, Feb. 8	PNG 35	[14.0D ?C?] {13.7D, 5CF}	AG=13.2/ -.7 ???
79.	9.11.12.7.2	665, Dec. 29	PNG 8	[6.0D 5CF] { 6.6D, 5CF}	AG=6.1/ +.1 YES
80.	9.11.15.0.0	667, Jul. 25	CPN 5alt	[27.0D 3CY] {29.1D, 6CS}	AG=28.6/ +1.6 No
81.	9.11.16.10.13	669, Feb. 17	YAX 6	[6.0D 2CF] {11.6D, 2CF}	AG=11.0/ +5.1 YES
82.	9.12.0.0.0	672, Jun. 28	PNG 37	[27.0D 6C?] {27.8D, 1CY}	AG=27.3/ +.3 -1?
83.	9.12.0.0.0	672, Jun. 28	ETZ 18	[0.0D 1CY] {27.8D, 1CY}	AG=27.3/ +27.3 YES ⁹
84.	9.12.0.0.0	672, Jun. 28	PUL K	[1.0D 3CF] {27.8D, 1CY}	AG=27.3/ +26.3 No ¹⁰
85.	9.12.0.10.11	673, Jan. 25	DPL 8	[3.0D 3CS] { 2.6D, 3CS}	AG=17.7/ +14.7 YES
86.	9.12.2.0.16	674, Jul. 4	PNG 1	[8.0D 3CS] {25.5D, 2CS}	AG=25.0/ +17.0 +1
87.	9.12.2.0.16	674, Jul. 4	PNG 3	[26.0D 2CS] {25.5D, 2CS}	AG=25.0/ -.9 YES
88.	9.12.3.14.0	676, Mar. 19	CPN I	[0.0D 4CS] { 29.4D, 5CS}	AG= 28.9/ 0.0 -1
89.	9.12.6.5.8	678, Sep. 13	PAL 18	[19.0D 5CY] { 21.9D, 6CY}	AG= 21.4/ 2.4 -1
90.	9.12.8.3.9	680, Jul. 25	CPN H'	[22.0D 5CS] { 23.7D, 5CS}	AG= 23.2/ 1.2 YES
91.	9.12.8.13.1	681, Feb. 2	YAX HS3	[27.0D 5CF] { 9.1D, 6CF}	AG=8.5/ -18.4 -1
92.	9.12.10.0.0	682, May 7	Ton 8	[21.0D ???] {25.0D, 3CF}	AG=24.5/ +3.5 --
93.	9.12.10.0.0	682, May 7	CPN 6	[22.0D 3CF] { 25.0D, 3CF}	AG= 24.5/ 2.5 YES
94.	9.12.10.0.0	682, May 7	DPL HS	[22.0D 3CF] {25.0D, 3CF}	AG=24.5/ +2.6 YES
95.	9.12.10.0.0	682, May 7	TON 85	[?.0D 3C?] { 25.0D, 3CF}	AG= 24.5/ ?.? ???
96.	9.12.10.5.12	682, Aug. 27	Nar 29	[19.0D 6CF] {19.0D, 1CY}	AG=18.4/ -27.4 -1
97.	9.12.10.5.12	682, Aug. 27	Nar 24	[18.0D 1CY] {19.0D, 1CY}	AG=18.4/ -27.4 YES
98.	9.12.10.5.12	682, Aug. 27	COB 1	[4.0D ?C?] {19.0D, 1CF}	AG=18.4/ +23.6 ???
99.	9.12.12.11.2	684, Dec. 4	DPL HS	[20.0D 5CS] {22.1D, 5CS}	AG=21.6/ +1.6 YES
100.	9.12.15.13.7	688, Jan. 3	Nar 22	[25.0D 1C?] {24.9D, 1CF}	AG=24.4/ -.5 YES
101.	9.12.18.1.1	690, Apr. 16	Q GP4	[2.0D 6CY] { 2.6D, 6CY}	AG=2.0/ +5.7 YES
102.	9.12.18.5.16	690, Jul. 20	PAL Tlea	[?.0D 1CY] { 9.0D, 3CS}	AG=8.4/ +8.4 No
103.	9.12.19.14.12	692, Jan. 7	PAL TFC	[11.0D 3CS] { 13.4D, 3CS}	AG= 12.9/ 1.9 YES
104.	9.12.19.14.12	692, Jan. 7	PAL TS	[11.0D 3CS] { 13.4D, 3CS}	AG= 12.9/ 1.9 YES
105.	9.13.3.6.8	695, Jul. 6	CPN HS	[10?.0D 4CF] { 19.6D, 4CF}	AG= 19.0/ 9.1 YES
106.	9.13.10.0.0	702, Jan. 23	CPN J	[18.0D 1CS] { 19.6D, 1CS}	AG= 19.1/ 1.12 YES
107.	9.13.10.0.0	702, Jan. 22	CRC 21	[19.0D 1CY] {19.6D, 1CS}	AG=19.1/ +.1 No
108.	9.13.10.6.8	702, May 30	PAL PT	[27.0D 6CS] { 3.64D, 6CS}	AG= 28.9/ -1.0 YES
109.	9.13.15.0.0	706, Dec. 27	TON Dsk	[?.0D 3C?] { 18.3D, 2CF}	AG= 17.7/ -9.2 +1 ¹¹
110.	9.13.17.12.10	709, Aug. 23	YAX L29	[15.0D 5CS] {13.8D, 5CS}	AG=13.2/ -1.7 YES
111.	9.13.18.17.19	710, Dec. 5	CPN HS	[27.0D 1CS] {10.3D, 3CS}	AG=9.7/ -17.2 No
112.	9.13.18.4.18	710, Mar. 19	Nar 23	[15.0D 1C?] {15.1D, 6CF}	AG=14.5/ -.4 +1
113.	9.14.0.0.0	711, Dec. 1	PNG 3	[18.0D 3C?] {16.9D, 3CY}	AG=16.3/ -1.6 YES
114.	9.14.0.0.0	711, Dec. 1	ETZ 19	[21.0D 6C?] {16.9D, 3CY}	AG=16.3/ -4.6 No
115.	9.14.0.0.0	711, Dec. 1	DPL 25	[16.0D 3CY] {16.9D, 3CY}	AG= 16.3/ .4 YES
116.	9.14.0.0.0	711, Dec. 1	COB 1	[5.0D 5C?] {16.9D, 3CY}	AG=16.3/ +11.3 No
117.	9.14.1.17.14	713, Nov. 14	YAX L46	[14.0D 3CS] {22.1D, 3CS}	AG=21.6/ +7.6 YES

⁹ This drawing is very bad, so that the number might be five rather than 1.

¹⁰ The number may be 1 with two fillers, and it is not possible to determine the face in C from the published photographs.

¹¹ This number with C may be two dots and a filler, but we can't tell from the drawing.

Date	Julian	Monu	Written	Required	Age and difference	
118. 9.14. 3. 0. 0	714, Nov. 15	Nar 30	[4.0D 4C?]	{ 4.3D, 4CY}	AG=3.7/ -2	YES
119. 9.14. 5. 0. 0	716, Nov. 4	BLN 1	[5.0D 4CY]	{15.5D, 4CS}	AG=15.0/ +10.0	No
120. 9.14. 5. 0. 0	716, Nov. 4	TON 136	[15.0D 4C?]	{ 15.5D, 4CS}	AG= 15.0/ 15.0	???
121. 9.14. 8.14.15	720, Aug. 10	PAL PT	[0.0D 3CY]	{ 3.1D, 3CY}	AG=2.1/ 2.1	YES
122. 9.14.10. 0. 0	721, Oct. 9	NIM 15	[13.0D ?C?]	{14.2D, 5CF}	AG=13.6/ +.7	¹²
123. 9.14.11. 5. 8	723, Jan. 21	BON Zur	[10.0D 3CF]	{ 9.7D, 3CF}	AG=9.2/ -.8	YES
124. 9.14.13. 4.17	725, Dec. 29	QRG Ew	[7.0D 3CY]	{10.0D, 3CY}	AG=9.4/ +2.4	YES
125. 9.14.14.13.17	726, Jun. 22	YAX L26	[13.0D 4CY]	{18.4D, 3CY}	AG=17.8/ +4.9	+1
126. 9.14.15. 0. 0	726, Sep. 13	CPN T11	[5.0D 5CY]	{12.8D, 6CY}	AG=12.2/ +7.2	-1
127. 9.14.15. 0. 0	726, Sep. 13	NAR 18	[13.0D 6C?]	{12.8D, 6CY}	AG=12.2/ -.7	???
128. 9.14.18.15. 1	730, Jun. 25	CAY No	[6.0D 1CS]	{ 5.9D, 5CF}	AG=5.4/ -.6	No
129. 9.14.19. 5. 0	730, Dec. 1	CLK 51	[14.0D 4CY]	{17.2D, 4CY}	AG=16.7/ +2.7	YES
130. 9.14.19. 8. 0	731, Jan. 31	CPN A	[15.0D 6CY]	{ 18.2D, 6CY}	AG= 17.6/ 2.6	YES
131. 9.14.19. 9.12	731, Mar. 3	Clv Lin	[5.0D 1CF]	{ 20.6D, 1CS}	AG= 20.1/ 15.1	No ¹³
132. 9.15. 0. 0. 0	731, Aug. 18	PNG 11	[10.0D 1CY]	{11.4D, 1CS}	AG=10.9/ +.9	No
133. 9.15. 0. 0. 0	731, Aug. 18	CLK 52	[8.0D 1CS]	{11.4D, 1CS}	AG=10.9/ +2.9	YES
134. 9.15. 0. 0. 0	731, Aug. 18	LFL 9	[11.0D 3CF]	{11.4D, 1CS}	AG=10.9/ -7.4	No
135. 9.15. 0. 0.14	731, Sep. 1	CLK 89	[15.0D 1CF]	{25.4D, 1CF}	AG=24.9/ +9.9	YES
136. 9.15. 4.15. 3	736, May 26	ITZ 17	[13.0D 1CF]	{12.1D, 6CF}	AG=11.6/ -1.3	*No
137. 9.15. 4. 6. 4	735, Nov. 29	DPL 16	[10.0D 1CF]	{10.3D, 6CS}	AG=9.8/ -.2	+1
138. 9.15. 6.13. 1	738, Apr. 4	YAX L56	[11.0D 5CY]	{10.9D, 5CY}	AG 10.4/ -.6	YES
139. 9.16.10. 0. 0	761, Mar. 13	YAX 1	[3.0D 1CY]	{ 3.3D, 1CF}	AG=2.7/ -.3	%No
140. 9.15.10. 0. 0	741, Jun. 26	PNG 10	[9.0D 3CS]	{ 8.7D, 3CS}	AG=8.2/ -.8	YES
141. 9.15.10. 0. 0	741, Jun. 26	PRU 27	[9.0D ?CS]	{ 8.7D, 3CS}	AG=8.2/ -.8	¹⁴
142. 9.15.12. 6. 9	743, Oct. 23	XCA TI	[2.0D 2CY]	{ 1.4D, 2CY}	AG= .8/ -1.1	YES
143. 9.15.13.13. 0	745, Feb. 25	SBL HS	[19.0D 6CF]	{19.8D, 6CF}	AG=19.3/ +.3	YES
144. 9.15.15. 0. 0	746, May 31	QRG S	[5.0D 4C?]	{ 7.4D, 4CF}	AG= 6.8/ 1.8	YES ¹⁵
145. 9.15.18. 3.13	749, Jul. 27	PNG L3	[9.0D 1CY]	{ 8.7D, 1CF}	AG=8.1/ -.83	%No
146. 9.16. 0. 2.16	751, Jun. 30	CAY L1	[3.0D 2C?]	{ 2.9D, 1CY}	AG=2.4/ -.6	???
147. 9.16. 1. 0. 0	752, Apr. 29	YAX 11	[12.0D 5CF]	{11.6D, 5CF}	AG=11.0/ -.9	YES
148. 9.16. 1. 0. 0	752, Apr. 29	YAX 11	[12.0D 5CF]	{11.6D, 5CF}	AG=11.0/ -.9	YES
149. 9.16. 3. 5.14	754, Aug. 11	BAL 7	[13.0D 1CF]	{18.8D, 3CS}	AG=18.2/ +5.2	No
150. 9.16. 6.17. 1	758, Mar. 10	PNG 14	[27.0D 4CF]	{26.4D, 5CF}	AG=25.8/ -1.1	-1
151. 9.16. 5. 0. 0	756, Apr. 8	CPN M	[5.0D 5CS]	{ 4.6D, 6CS}	AG= 4.1/ -.9	-1
152. 9.16. 7. 7.17	758, Sep. 8	Q GP9	[27.0D 5CY]	{25.0D 5CY}	Ag=24.7/ -2.3	YES
153. 9.16.10. 0. 0	761, Mar. 13	QRG F	[0.0D 6CF]	{ 3.3D, 1CF}	AG=2.7/ +2.7	¹⁶
154. 9.16.10. 0. 0	761, Mar. 13	CPN N	[27.0D 1CY]	{ 3.3D, 1CF}	AG= 2.7/ -5.0	%No

¹² This one does not have a standard C form.

¹³ There is an error in the IS date that is hard to resolve. The stone seems to have 9.14.19.9.12 or 13 combined with 1 Ahaw and G3. This G3 is correct of the recorded long count and for 9.14.17.9.12 (729, Mar. 13). This long count calls for 8D 1C female, with is closer to the lunar series recorded.

¹⁴ The C has no number, but the X indicates the skull form of C.

¹⁵ The head in C is eroded but can be determined from X.

¹⁶ This one may record the dark of the sixth lunation, instead of 1 or 2D of the 1st lunation. As on Stela 31, the form of C does not change as it should.

Date	Julian	Monu	Written	Required	Age and difference
155. 9.16.10. 0.0	761, Mar. 13	SAC 1	[4.0D 1CY]	{ 3.3D, 1CF}	AG=2.7/ -1.2 %No
156. 9.16.12. 4.6	763, May 28	CRC 3	[11.0D 6C?]	{11.9D, 4CS}	AG=11.4/ +.4 ???
157. 9.16.12. 5.17	763, Jun. 28	CPN T11	[11.0D 6CS]	{13.4D, 5CS}	AG=12.8/ +1.8 +1
158. 9.16.13. 4.17	764, Jun. 2	QRG Dw	[4.0D 4CY]	{28.5D, 4CY}	AG=28.0/ +24.0 YES
159. 9.16.15. 0.0	766, Feb. 16	QRG J	[4.0D 6CS]	{ 2.0D, 2CS}	AG=1.3/ -2.6 *No
160. 9.16.15. 0.0	766, Feb. 16	QRG De	[0.0D 1CS]	{ 1.9D, 2CS}	AG=1.3/ +1.3 17
161. 9.17. 0. 0.0	771, Jan. 21	Nar 13	[27.0D 4CS]	{ .6D, 3CF}	AG=29.5/ +2.5 No (Ecl)
162. 9.17. 0. 0.0	771, Jan. 21	QRG Ee	[0.0D 2CF]	{ .6D, 3CF}	AG=29.5/ +29.5 (Ecl) ¹⁸
163. 9.17. 0. 0.0	771, Jan. 20	TON 3	[20+.0D 5C?]	{ .5D, 3CF}	AG= 29.5/ ?? No,Ecl.
164. 9.17. 2.12.16	773, Sep. 22	CPN T11	[?.0D 6C?]	{ 2.0D, 6CS}	AG=1.5/ +1.4 ???
165. 9.17. 5. 0.0	775, Dec. 25	QRG A	[26.0D 2CY]	{28.7D, 3CY}	AG=28.1/ +2.1 -1
166. 9.17. 9. 0.13	779, Dec. 17	IXK 2	[5.0D 3CF]	{ 5.2D, 5CF}	AG=4.6/ -.3 -2
167. 9.17.10. 0.0	780, Nov. 28	QRG B	[27.0D 2CS]	{27.3D, 4CS}	AG=26.7/ -.3 *No ¹⁹
168. 9.17.10. 0.0	780, Nov. 28	COB 20	[23.0D 4CS]	{27.3D, 4CS}	AG=26.7/ +3.8 YES
169. 9.17.13. 4.3	784, Feb. 4	Nar 14	[7.0D 2CF]	{ 9.1D, 2CF}	AG=8.5/ +1.5 YES
170. 9.17.14.16.18	785, Oct. 11	QRG 0	[0.0D 5CF]	{ 4.0D, 5CF}	AG=3.4/ +3.4 YES
171. 9.17.15. 0.0	785, Nov. 2	QRG G	[23.0D 5CF]	{25.9D, 5CF}	AG=25.4/ +2.4 YES
172. 9.18. 0. 0.0	790, Oct. 7	IXK 1	[24.0D 6C?]	{24.6D, 6CY}	AG=24.0/ +6.7 ??? ²⁰
173. 9.18. 0. 0.0	790, Oct. 7	NIM 14	[28.0D ?C?]	{24.6D, 6CY}	AG=24.0/ -3.9 No?
174. 9.18. 0. 0.0	790, Oct. 7	SAC 9	[23.0D 6CY]	{25.0D, 6CY}	Ag=24.1/ 1.1 YES
175. 9.18. 0. 3.4	790, Dec. 10	BON Ptg	[?.0D 3CS]	{ 4.4D, 3CS}	AG= 29.0/ 0.0 YES
176. 9.18. 5. 0.0	795, Sep. 11	PNG 12	[23.0D 6CS]	{23.2D, 1CF}	AG=22.7/ -.3 -1
177. 9.18. 5. 0.0	795, Sep. 11	QRG P'	[23.0D 4CF]	{23.2D, 1CF}	AG=22.7/ -.3 *(dwg)
178. 9.18. 5. 0.0	795, Sep. 11	QRG P	[3.0D 4CF]	{23.2D, 1CF}	AG=22.7/ +19.7 *No
179. 9.18. 9. 4.4	799, Nov. 13	PAL IS	[5.0D 1CS]	{ 11.6D, 5CS}	AG= 11.1/ 6.1 *No
180. 9.18.10. 0.0	800, Aug. 15	Nar 8	[21.0D 2CY]	{21.8D, 2CY}	AG=21.3/ +.3 YES
181. 9.18.10. 0.0	800, Aug. 15	QRG I	[16.0D 2CY]	{ 21.8D, 2CY}	AG= 21.3/ 5.3 YES
182. 9.19. 0. 0.0	810, Jun. 24	QRG HS	[?.0D 4CF]	{ 19.1D, 4CF}	AG= 18.6/ 18.6 YES ²¹
183. 10. 2. 9. 1.9	878, Jul. 26	CHN TI	[5.0D 5C?]	{23.3D, 6CS}	AG=22.8/ +17.8 -1

¹⁷ This one records the dark of the moon for 1C, while the computer program calculation calls for the second day of the second C. This is, therefore, an agreement.

¹⁸ This text records the dark of 2C, when the calculation wants first day of 3C. Its an another agreement.

¹⁹ The number is an unusual full-figure glyph. It could well be four, but it has a *sak* sign in the headdress. Since the head variant of the number 2 and *sak* are interchangeable, we have read the number as two.

²⁰ Head in C is either the Young Male or the Moon Goddess.

²¹ The form of the number with D is unique.