

using day-20-AHAB = ahab hab₂

MTED / Maya Transition Epigraphic Dictionary

'year in general'

Maya

hab₂ unconventional way of rendering 'year in general' by using the day-20 glyph shab 'Lord' seeing in it shab

- 5 To people who like simplification, e.g. in orthography (writing English phonetically, like most Slavic nations handle their languages) it will appear simply monstrous to see
- 10 Mayan ways to tackle writing problems. But the Maya had seemingly in mind to fight time and language decay. Over two millennia they preserved many terms like they got them from Sumer.
- 15 Latin in Europe was not stopped in spite of celebrating the holy mass in Latin. The Maya scribes often hopped from one glyph to any other
- 20 that sounded more or less like the word they wanted to denote.

The word KATUN = 20 360-day years, was written in many different ways and in adherence to different lexical compositions. Like pretentious ones amongst us they exhibited apparently everything they had learned and thus created to the Mayanist an Ocean of interconnections.

- 25 Sum. maš, Neo-Maya ka-matš 'the jaw' had in Sumer a Lowland spelling mus. To speak, in Maya-Land, Akkadian lahum 'jaw' was the 3rd means to show learning. To use mus 'rain' in rebus for muš 'jaw' (thus omitting reference in a head glyph to its jaw) was admissible. But in one case the scribe omitted even the drops around mu (necessary to
- 40 make from mu a muš, 'rain') and trusted thus in the reader's intelligence.

Below (according to Harris/Streams 1992 p70) the grasping hand (Sum. šu 'hand') meaning 'to sink' (Sum. šu) and the kin-n(i)-sign = 'sun' = 'West, evening' and the bird-Quetzal-head-glyph. 'Western Quetzal' = 'Western Venus Star or Evening Star', seems also to mean 'terrible Quetzal = awful Venus, war'.

The postfixed -na (*house) is rather a complement to mark the variant KUM-na 'Venus-star'



No sense makes: (k'in-ni-ich-k'uk'-na) K'inich K'uk' Na - 'Mahk'inah-K'uk'-House'; H/S p70. Indeed, in Sum. (u-gun 'Venus' is older than gug (Maya KUK). For more see the 5 pages of MTED dealing with KUK 1/2/3/4/5 'planet Venus/Quetzal/coast'

Sumer

For etymologies see MTED hab, and mu₁, muš₁, muš₂, mas₁.

- 45 Maya, continued:
The KATUN-compound giving the mu-lesson plus an shab 'year' (not 'Lord') on the nose of the head-glyph is found in Palenque TFC I-1. TFC I-1
The reading ka-mu₁(-ka₁) shab confirms the existence of the alternatives enounced, e.g. relative to the 'jaw' which invariably refers to 'ten' throughout the MTED, be it mas or mus or lahum. All that is Mesopotamian 'jaw' (and 'ten' as it survived, in -nis, in Turkish). Furthermore, it confirms 'year in general', unscientifically spoken, = hab (in the Dresden Codex : the solar year =

Now, repeated, the case referring to ka.b₁-lahum-shab (see in MTED).

- 70 It is also found in Palenque, Trilogy I, B-3. But instead of lahum the alternatives mus, mas are admissible. For the sake of convenience, shab 'year' is in MTED given the transcription hab₂. Here some day-20 -AHAB-glyphs:



Cf. the 4 Macaw-bird-years = the 4 big years of 365 days each sub mak-hab, as in the Dresden

Codex p40b, in this MTED, in the context of regular intercalation of an extra-day at the end of the fourth Macaw-year, i.e. leap

year, as discovered on May 28, 1993 in the Dresden Codex p40b by the author. MTED mak-hab pl. II, III, IV, V

There is an interrelation between the name of the Macaw-bird and the name of the macaw-palm (on the fruit of which the birds feed). Said palm is, in Tupi called macahuba/macahiba (Webster's 1961 p1353)

A frequent month-name is
u-hil - 'waning-crescent', or,
in Palenque : o₅-hil
^I
'the crescent'
and a phon.value



T48IV

MTED / Maya Transition Epigraphic Dictionary

Maya

T18IV

hil, 'the crescent'
also used phonetically



Without the CVC = consonant-vowel-consonant phonetic value hil, it would have been impossible to read a variety of glyph-compounds all paraphrased to mean 'War God', God K, the smoking God, or simply Kauil as ⁴that what is written: kab-hil = the Old Maya way to write Kauil.

As we can see sub MTED kab, and kab-kab, the name of God K or Kauil ⁴can be written by means of kab ^x(that ^x means: different sorts, here of kab) plus -hil. A writing kab-il is still to be found (-il = 'to see', used phonetically). It so appears that - as made clear sub

²⁰kab, and kab-kab: -X must be read hil and that it cannot be read as a colorless, allegedly grammatical neo-Maya supported suffix as it is done by the Schele-teams of young

²⁵epigraphers. Indeed, the crescent in the God-Kauil-context makes under the enounced Schele criteria no sense at all. By the way, in archaic writing, in Sumer and Maya-land, suffixing of grammatical morphs is scarcely used. Schele: crescent = -ah! Now a few words about the history of my finding and frequent encountering the hil-value. In 1990, I

³⁰saw in David Kelley 1962 p23 a glyph-block: left side: a terribly drawn bird-head (?), right-side below: the 'dancing place'-glyph read as ba by Yuri Knorozov 1967

³⁵nr122. 'Paraphrased' as 'turkey' by David Kelley and Napoleon Cordy.

Very interesting is the Moon-word hil found in Chol (see Otto Stoll 1958 p75 = n142). If split = u-hil it offers also the u-Moon-word, pan-Mayan. Indeed, the phon. u-glyph is a waning moon so that u-hil ingeniously describes the lunar main characteristics.

Yucatec y-hil = 'month' confirms Chol u-hil (y-hil is 1628-pC-Zuyus, MEXICON 1990 p89)

Significant is Palenque TPC B-10, compound with

4 elements:

- 1) HO ('S')
- 2) o₅ BB
- 3) - hil
- 4) - Katum

Schele/Freidal 1991 (Münich) p280 line 4. paraphrasing it say: 'Five months have ended'.

The o₅-element has circles instead of 2. For more see katum-m(u) 'end, ended' (pre-Rebus- Akkad. 'hand' end 'end') It follows that TPC B-10 says: 'ho o₅-hil katum - Five waning-crescent (periods = months) ended' Cf. Chol u-hil 'month'.

Sumer

hil, 'the crescent'
actually a phonetic value

Borger, R. 1981 Ass.-Bab.Zeichen-L. 45 n 401 A-E HAR / HIR / +HIL Pos. 1-A-a: Sum. hil 'the crescent' That such hil existed in Sumerian is proved by Semit. hill which produced Arab. hilal 'crescent'. The hil-crescent term must have been. Emešal (a Lowland Sumerian dialect) with Lowland-preform hil, and Highland hal, from NoFo haxla Iramian (not attested) haxla-, Aryan sakla-, IE (Indo-European) sek-1-ā f. 'die Sichel/sickle', cf. German 'Mond-Sichel'; the root is sek- (see Lat. sec- as in section 'Abschnitt') 'to cut'; note also saxum 'rock, stone' to make Germanic sahs 'sword, knife'. Germ./Engl. Sichéł/sickle is of Lat. origin

Maya, continued:

And what meant the right-side above glyph? It could be muš, ('rain') or something else. It was on June 19, 1990 that I first thought of a hil =

⁷'crescent'. A hil-ba 'turkey' did not appear in the Maya-wordlists. But a Pocomchi



turkey

pihil 'Puter' was offered by Stoll p71 = n101; i-i from a-i is vowel-assimilation. The scribe had the sequence inverted. A Sum./Maya etymon

ba-hil 'offering to the crescent' (as a name of the turkey) made good sense. More sub MTED 'pa-hil' with mu-pa-hil occurrences > bi-hil,

my-bi-la (4-3)

The three circlets (in Maya meaning '3') affix- (and R. Gruba's) -ah now ad to all Maya-Moon-tidily spoiling Maya transcriptions.

Glypha do agree with Sum. graphs showing 3 similar insertions For pa-il (*turkey) in the Dresden Codex see listings of Gates 1931 p142 (311.3)

read as '30'. The variant turkey-name mu-ba-il, is with -il 58.e.4; 311.3.2 = D.67.

The inverted sequence instead of -hil, a wonderful confirmation could be a realistic variation that the crescent-glyph in the sense 'crescent' is hil and not Schele's offering' (by means of a turkey, cf. Sum. ba 'offer')

MTED / Maya Transition Epigraphic Dictionary

Maya

hu- 'his, her, its'
hu-ha 'their'

As seen in the fluctuation -hil and -il, and in several rebus cases, the scribes judged h to be a soft sound. They did not insist in writing it stereotypically. The glyptic rendering of hu- was assigned to to the u-glyph which means 'moon' and is in phonetic use. It so happened that u 'he, she' or rather a deictic element as our 'this' or 'that' was likewise written by means of the u-glyph.

Since MTED has also etymological intentions and prefers an 'historical' orthography, a difference is maintained: hu- for 'possessives', and uⁿ for the deictic. Popular in Iran is in = here-deictic, and uⁿ = there-deictic (orig. an). Such orthography makes reading or understanding easy. The main purpose of language is to be understandable.

Also any -u appearing as bird-suffix will be transcribed -hu since it stems from Sumerian -hu 'bird', likewise suffixed.

Sub MTED kam 'to die', line 35, a Quiche raš kamik 'sudden death' (Gates 1931 p27) is quoted. An occurrence

fits exactly to hu-kami-k(a) =

'his death'. For topoi see kam.

Our Old Orient lingua franca had the elements (cf. Sum. gam 'to die') to make this Maya understandable.

Sumer, Iran

-hu 'his' in Old Orient lingua franca

The Sumerians had be 'his' from 'baia, hba-hia, Aryan sva-sya, IE (Indo-Europ.) swo-syo in which the su- is the root.

Latin su-us, su-a, su-um has e.g. in Spanish been simplified appearing (as in Maya) as su- 'prefixed'. Italian retained the Latin gender-suffixation, to a minor extent.

French devastated the Lat. system.

In Arabic, the old -hu 'his' survived. Under i-u-rk-rules, suffixed -su (in Sryan) became, if -i- or -u- preceded, -su and was in Akkadian generalized, with reflex in Modern Persian: padar-as 'his father', but Arabic abu-hu 'his father'. Related is Latin avus suus 'his forefather'

In the above instances, the practical advantages of etymology are clearly visible.

Maya, continued

Another instance be quoted from Maya: Yucatec:Zuyua of 1628 pC (see MEXICON XII 1990 p89):

chac u than = 'his word is vigorous'. Understand it in Old Orient

pidgin: tsok hu tahan 'strong his mouth' and you will feel quite at home in Mayaland (Pers. dahan 'mouth', Sum. tun (= Low-land) from tuhun, Highl. tahan 'mouth'. Think of German Mundart or 'Aus zweier Zeugen Mund' ...

Borger 1921, ABZ

n78

Px. 20: Arab. -hu 'his'

With the same pl.-suffix -ha one forms in Pers. from uⁿ = 'he over there' the term uⁿ-ha 'they over there'.

As to the plural Maya -ha- of hu-ha 'their' note the Sum. and Pers. plural affix

-ha; it is not reverential as the Sum. and Pers. pl.-suffix -an (in Sum. -e-ne from previous -ani).

hu₂

See MTED Old Maya tun, 'give birth'
denoted by the same glyph T.740;
glyph shape here according Harris/Stearns
1992 p46.

'give birth'

*the upended frog
T./Thompson 740

MTED / Maya Transition Epigraphic Dictionary

Mayahu₂ 'to give birth, engender' T.740

The variants of the 'upended frog' glyph could suggest that there had been at least two different glyphs meaning to give birth. This would be in accordance with appropriate synonyms. According to Harris/Stearns 1992 p46 the situation is as follows: "(T.740), as a logograph; it represents a word for birth, possibly the word sih; and as a phonetic value it can represent the syllable hu."

It is a remarkable achievement that here the possibility is offered to see 2 synonyms involved, I mean Maya tuh/tun - Sum. Lowld. *dun-, Highld. / SW-Iran. dān- 'to give birth etc.' and Sum./Iran./Greek hu- 'id.' (the latter from IE/Indo-Europ. su-, = zero-grade of sew-, Aryan/Sanskrit sav-, Iran. hav-, Sum.-Semit. hab- and of course Maya hab, (in MTED), q.v.

In this context, the alleged phonetic element Maya hu₂ needs constant examination.

The loss of initial or internal h-, -h- in Iranian, Sumerian, and Maya dialects is recurring frequently as in many other languages, especially in those where s-, -s- appears before or between vowels and then changes into h-, -h- as in Greek, Armenian, Iranian, Sumerian, and Maya. This means, e.g. for Sumerian, that the Indo-European ablaut-couple sū-/sew- 'rain, engender, give birth' (which in Sanskrit is sū-/sav-, in Iranian hū-/hav-) appears as u₅ 'coire' and as ab₂ 'engender, give birth'. (Sum. ab₂ with regular change of Iran. -v- into Sum. -b).

Now a few words to the s.m. mentioned (Yucat./Cordemex) sih- 'gives birth':

The SW-Iran./OPers./Sum. d (properly d as in English the or NW-Greek delta) was in Highl. and Lowl. Sumerian not subject to assimilation (of dentals) before -i and -u. Said d (-d) stems from NW-Iran./

Avestan z and this from Aryan ζ, IE/Indo-Europ. palatal ȝ - Western European non-sates languages - g, - Germanic k. As d (not g) it survived in Neo-Sum., contrasting with IE and Indo-Iranian di and du which in Highland and Lowland Sum. suffered assimilation (cf. Engl. duty/dyuti/dzuti/zuti/zuti) with very few exceptions in Sumerian, e.g.

SASS n6 Pos.2-a: Lowld. zu 'to know' - du₂₆, or *dun, Highl. *dan, Kpers. dan-/dun-, mi-dun-as 'I know', IE gen-, German kennen. Indeed, the other meaning of IE gen- 'to engender, generate etc.' reached Lowland Sum. as tu (properly *dun) - SASS n58 TU, TUD, Pos.1-A-a: tu 'give birth', (and pp/past partic. tud- da, OPers. dāta, Avestan zata 'born'). As "tun" it reached Hayaland, cf. Cak-

chiquel tuh (-h from -n as so often in Maya) 'give birth'. Subsequently, what did not happen in Sumer, happened in some Maya dialects, namely: assimilation of du/tu, via *dyu/tyu to *dū/tū and finally zu/su, plus -u- becoming -i- - Yucat./Cordemex sih- 'give birth', sih-il (epigraphic also tun-hil, sih-hil) 'birth'. That the above hu₂-glyph has thus 2 values: hu₂ and tun/tuh - sih/sih. is clearly confirmed.

Sumer, Iranianhu- 'to give birth, engender'

Borger, Rykle, 1992, ABZ n78 HU = h-aui- 'bird' Pos. 21: Sum./Iran. hu- 'to give birth, to engender', from Aryan/Sanskrit sū-, cf. Maya hun, NW-Iran./Avest. hunu- = 'son', and of course IE sūnu-, with Engl. son, German Sohn. For full IE details see e.g. Julius Pokorny, 1959, Idg.Wb. p913. The Sum./Iran. hu- (denoting likewise 'to rain') entered Old Egyptian: hw.t 'Regen', hw.j 'regnen/to rain' - sPyr III 49, MR Sp. III 48.

More the Sum. reflexes of the Iranian ablaut-couple hū-/hav-, without initial h-:

SAGS n78a U₅
Pos.2-A-a: Sum. Highl./Lowl. u₅ 'coire, copulate' (Deimel 1939, 118; 1934, 101)

Pos.2-B-b: Akkad. rikib-tu 'copulation' (u₅ is a reflex of different preforms/etyma)

SAGS n420 AB₂ AP₂ UB₉

Pos.2-A-a: Sum. Highl. ab₂ 'to generate, give birth'

Pos.2-A-a': Sum. Lowld. ub₉ 'idem'.

Maya retained in the 2 cases studied here the Iran./Old Sum. initial hu-, see MTED hab, (and hu- on this page).

MTED / Maya Transition Epigraphic Dictionary

HUN, a depicted finger, may mean 'one' and 'son' child of the hand, the thumb (= ne) being the mother

HUN, 'son (of prince)' y.u-n(e)

Maya See MTED Sumer/Maya me- 'mother'

HUN, 'son (of prince)' cf. hun '1'
y.u-n(e), 'idem'
hun = 'one, in ones, united, n1'
may in rebus mean 'son'

- 5 The Old Maya hun, 'son (of prince)' stems from Iranian NW/SW (= Old Persian) hunu- 'son', - IE (Indo-European) sūnū- Germanic sunu- (Goth. sunes) 'son/Sohn', from root sū-, seu-/sew- (see MTED hu-, hab) 'to give birth to, to engender, inseminate, to rain'. Seemingly not being attested in Sumerian, this points to Old Persian domination of Babylon
15 (500 aC). Just like nowadays terms such as teenagers, kids etc. invade the globe, so it became fashionable to refer to the sons of upper class people as hunu(s) who were the leaders of the multinational expeditions to Mesoamerica. Stuart 1983 sees in Maya hun, a substitute for other Maya terms meaning 'son (of father)'.

In the inscriptions, Maya hun, appears with the ergative pronoun -y- (thus suppressing -h-), in phonetic rendering y.u-n(e). The final CV-syllable ne is properly the pictogram of a jaguar tail which was as ne identified by Hopkins 1986.

This is correct because multi-Mayan he 'tail' has, quite normal, h- instead of n-, which n- indeed survived in Chorti neh 'tail' (MWL n39 and Stoll n107 p70).

Terrence Kaufmann's (TECO p174) Pro-
to Maya hēh 'tail' is a meaningless attempt to present a compromise.
'Tail' is 'final part, end, conclu-

Sumer, Old Iran

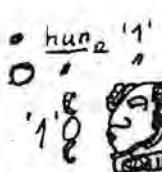
40 hunu- (= Iranian) 'son'
Berger, Rykle, 1981, ABZ
(in the context of the Iranicity of Sumerian:)

- 45 n78  HU
Pos. 21: Sum. & Iran. hu-
'to give birth, to engender, inseminate, to rain', of. Old Egypt. hw.t 'the rain', hw.j 'to rain'.
50 (sPyr III 49; MR Sp.III 48)
Note the Maya 'upended frog'-glyph which has also, within the meaning 'birth', the phonetic value hu.
55 In Cuneiform, no problem to denote 'son' by adding -nu.

5231  NI, NÉ - NE,
Pos. 64: Sum. né 'beendigen/
finish/to end/*to get at
60 the tail' (my source is
A. Deimel SL n231, 61 who
writes ni which equals né)
This Sumerian né 'end, *tail'
is obviously a cognate of Maya
65 ne, 'tail' probably profitable
in future readings.

Maya, continued :
sion', supporting the above
Sumerian né.

70 Proper Sum. kun 'tail' appears in Maya: Quekchi-Coban kun 'penis' (in the context of Maya/Sumerian mi 'vulva, female', cf. mi-al 'girl')
so in Lope, Mario Selis, 1937 Vocabulario Esp.-Quechua 80pp,
Coban, Alta Verapaz, Pocomam: *al-kun 'boy' (Stoll n212).



/ In the text from a cylindrical vase from Maranjo, giving the artist/scribe's name and parentage, the term 'son of' appears as
y.u-n(e)  - n(e) Jaguar's tail



The scribe is son of the ruler of Maranjo; For more details see Coe 1992 p250.



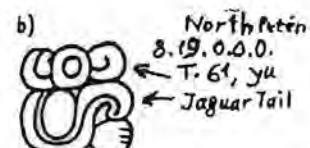
/ Maya kun (later also kuh) 'tail, penis, end': Quekchi has kun (Lope) 'penis' and nak'kun 'testiculus', probably 'near-penis'. Huasteca hu-kuh 'tail' (Stoll n107); this is Sumer. SAGs n77, Pos.2-a: kun 'tail'; see MTED katum-n(u) 'end' for the meaning 'end' of Maya kun

hun, 'one' and 'united', in rebus :
- 'son (of prince)'

The phonetic renderings of hun, 'son' are presented in Nikolai Grube (presently at Bonn) 1990 p48, Abb.9, Die Hieroglyphen y-u-n in frühklassischen Texten, a)-c):



Tikal Stela 31 M-3 (Jones & Satterthwaite 1982: Fig.52).



El Peru Stela 15, right side
(drawn by Jan Graham).

c) North Petén



Copán Stela 63 left side (following Stuart et al. 1989)

IL, 11 il, -

'to see'

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Maya

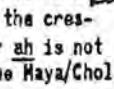
T.27, T.24

il, ila, i'ila, igila 'to see'
-il etc. = 'suffix & phonetic'

Most important is that the scribes in many cases considered -il and -hil as interchangeable when using them in phonetic writing. This confirms the correctness of my reading the crescent glyph T.181 V as hil. The Yucatec term sihil 'birth' (Cordemex 727), applied to Proskouriakoff's (1960:454ff) 'birth'-glyph (T.740) - whatever root is basal for si- - appears in Palenque inscriptions 23 times (Tri-logy III 3 times; Temple of the Cross = TC 16 times; TPC 2 times; Palace Plate 2 times). Note: 14 times with -hil-suffix. Was the cartouche overcharged, the scribe placed the -il-suffix below (-hil requires more vertical space at the right side of the glyph block). The term 'birth' appears before Personal Names (= PN), e.g. Tr (= Tri-logy) III K-9; and in TS C-10; and again Tr III O-6 and so on.

I have sound reasons to assume that the 'sihil'-birth-glyph was originally spoken tunil, then tuhil (cf. Cakchiquel tuh 'to give birth/gebären', in Herbruger 1956 p131), then tsuhil, and finally (Yucatec) sihil. Thus see MTED tunil 'birth' with Sumerian cognate. The Palenque 'birth'-occurrences may ultimately confirm tuhil. The Maya-il-glyph, orig. an eye = coincides with the Sum. eye-preform: later, turned 90°

Grube 1990 p60 men-

tions Thompson/T.
819 as meaning IL
il 'to see'. see a).As a partly phonetic writing he presents il-a-hi, see b).And as wholly phonetic he points to i-la-hil (namely il - i-la-), see c.), not being aware that his and Schlele's reading of the crescent glyph as ha or ah is not in agreement with the Maya/Chol word hil denoting the crescent

and/or the moon;
hil is recurring in Basque and in Semitic (hilal 'halfmoon', from hill, Iran. *haxla IE sekla, Lat. secula whence Germanic sickle. See MTED hil 'crescent'.

il
ila, i'ila
igila
'to see'
-il 'suffix'
and phonetic

Sumer

igila = igi-la 'to see'
= 'to lift the eye' (igi = 'eye')

Borger, R. 1981 Ass.-Bab.Zeichenliste n449 IGI 'Auge'
Pos.30-a: Sum.Lowld. igila 'to see'
Pos.30-a': Sum.Highl. 'ax̄si-tlaž- 'id.'
n449 has igil (Lowld.) and ši (Highl.) = full Iran. form is axši, cf. Sanskrit aksi-, IE (Indo-Europ.) okʷsi-, pre-Greek okʷ-, later op- (optics) all meaning 'the eye'.

n481 LĀ, LAL from tlaž- 'lift'
Pos.11-a: Sum. lā, full form lal
'to lift, to carry', preform is tlaž-, cf. Sanskrit tula-y- 'id.' The IE-root appears in Latin tolerare, German dulden and so on in many applications.

This is useful to know for appreciating the fact that Maya is a partly IE language and that no intelligent Westerner should hesitate to learn some Maya since in doing so he can learn a lot about the pre-history of his own language ...

There are numerous cases in Sumerian and in Akkadian where -l- replaces former -š/-z-. Assyriologists know that. Thus lal is tlaž. Note for instance the case of another Sum. lal with preform laž- regularly from Aryan lay- 'to diminish/mindern'. Sum. lal 'to lift' arrived also in Maya: Ixil ta-lal 'heavy', or pleonastically: al talal (al means also heavy); in this context: Sum./Akkad.: alim 'heavy' (n421 Pos.12-a/b): Maya Uspanteeca: alin 'heavy'.

As stated above, Sum. igi 'eye' stems from Aryan/Sanskrit aksi 'eye'. The -g- disappeared in more recent Indic dialects, so also in Lowland Sumerian igi from ugi/uki. Cf. Sum. ugula 'supervisor', properly *ugi-la, while Akkad. retained initial Indo-Iranian a- in akil (stat.constr.), with aklu (from *aki-la) 'idea'. The weak stop -g- of igi may have got lost in spoken Sumerian of 500 aC. It so happened that a form ila, il- reached Mayaland. The Sumerian IGI-graph is a test case for correct reading since it has also the value ši standing for Highland/Iranian xši, axši 'eye'. If the context reveals other Highland -a--spellings, then we have to read Highland axši 'eye' instead of Lowland IGI/ugi/uki/ukhi/uksi etc. A phonological parallel is seen in Maya MTED iši 'body-part' (classifier, proposed) - Lowld. Suzu, but Highl. an,dam (Iran. *ham,dama- 'together-bound/Zusammengesbondenes, NPers. angam 'body-part'). The Sum. graph was phonetically structured in the Highlands or by Highlanders. UZU - *undu/undum / andas.

itsi-kal₂

MTED / Maya Transition Epigraphic Dictionary

MayaSumer

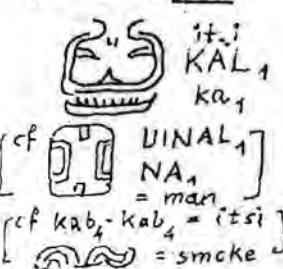
'fire-maker'

itsi-kal₂ 'Fire-Maker-Month'The fifth 20-days-month
not relating to the natural
phenomena of the Solar Yearizi-gar 'Fire-Maker-Month'The fifth 30-days-month
= the hot month August
e.g. with forest-firesA variant smoke sign is seem-
ingly involved whose value ts,
its, tsi, itsi is recognized
among Mayanists. During theBorgsr, R. 1981 Ass.-Bab.Zeichenliste
n172 𒂗 NE / IZI 'fire'
Pos. 8-a: Sum.Lowl. izi 'fire'
Pos. 8-a': Sum.Highl. aszi 'fire'10 centuries, the month-name became
tsi-ka, tseke (= assimilation),
and finally tsek. The scribes added
(pre-, sub- or superfixed) ka. This
is obviously a reading-support to
make clear that the (incomprehen-
sible) name of the month was tsi-ka
at the time the scribes lived.n537 𒂔 NIG / GAR
Pos. 5-a: Sum.Highl. gar 'make'
Pos. 5-a': Sum.Lowl. *gur₂₄ 'make'
n233 𒂔 GA' / MAL₄ < GAL / lowl. gu₂₀
Pos. 4-a/b: Sum.Highl. ga₂ / Akkad. sa-
(ga₂ is the shortened gar 'make')Also the kal-glyph out of which the
flames emerge, is certainly kal,
as it offers the meanings '20',
'20-days-month' = uinal, and per-
haps uinik 'man' with his 10 fingers
and ten toes = 20. The meaning
'to make' may have got lostThe name of the 9th month was in Old
Pers. assi-yad- 'fire-worship-month'
The name of the 5th month would be
assi-kar-. This assi- (= SW-Iran.)
is in Avest. (= NW-Iran.) aθri-, Aryan
atri-, and retained in Latin atrium.25 This here is to some extent a les-
son in Maya calendrics: in respect
of the solar year and its natural
phenomena the calendar kept mum.
Originally meaningful month-nomen-
clature entered, denaturalized, in
a year of 18 months each one last-
ing 20 days. No reason for glori-
fication. Their obsession - dis-
regarding the profane agricultural
year - was planet-movement obser-
vation and 'interpretation'.Nordic year starts at winter solstice;
Iran. year at spring equinox = Nōruz
= New Day. And so in Sumer. But no-
body looked at the Sum. 2nd month,
named bar- and thought of an etymon.
Make bañar, und you have Persian bahar
from vesr-, Ital. prima-vera 'spring'.This wonderful solar 12-month-year
was by the Maya changed into day-count-
ing but admirably focusing on planet-
periods./a)) in Palenque
e.g. TC 5-10 : /b)) in Kelley 1962

40 MONTH TSEK

trace
of
smoke
affix

TSEK

Bath, KAL (= ka-lahum)
and UINAL mean also
'twenty' = 'man'
= 10 fingers + 10 toes
and 'length of 20 days'/c)) The sub-
fix may
be the
rest of
a former
smoke-affix
Kelley 1962 p32 = T. 122A third 'to make'
in Sumerian:
n105 II KA'R
Pos. 1-a: Highl. kár
Pos. 1-a': Lowl. gur₆
or *kur₁₆itsi-kal₂
tsi-ka, tseke =
5th month Tsek

Chol Ca-ze-u = itsi-kal is
simply another sequence,
instead of fire-making read
making-fire, -u = Moon or
Month. Such sequence inversion
is also seen in the ele-
ments of the glyph com-
pound. The origins of the
Sum. 12-month Solar year
with Nōruz/New Day begin-

ning on 21 March, was doubt-
lessly a country with all
kinds of flora and fauna.
Such beautiful countries
existed in Old Iran more
than at present. Iran is
full of traces of 'lost ci-
ties' and civilizations. It
is the real home-land of the
Sumerians, whose Iranicity
is proved in the HGS/Histo-
rical Grammar of Sumerian,
Bonn 1964 ff.



This unnecessarily
'subfixed' YEAR-glyph
hab, is something like
a complement since the
 $\underline{muš}_2$ -glyph means TUN-year
because of the 6 circles
 $- 6 \times 60 = 360$ days.

ka₁-muš₂-hab

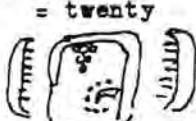
'twenty years'

= one KATUN.

ka₁-muš₂

'two jaws'

= twenty



MTED / Maya Transition Epigraphic Dictionary

Maya

ka₁-muš₂ 'two jaws' = 'twenty'

ka₁-muš₂-hab, 'twenty years =
one KATUN'

ka, is the fish-fin glyph
(fish = kay, kar, cf. Sum. ha
and har 'fish'). Since writing part
of the body of an animal meant, as
a glyph, using part of the name of
the animal, the Maya, with fish-fin,
obtained ka (idea advanced by Morley
1915 who wondered in one case a full
fish picture could replace the usual
ka). Similarly the jaguar is balam
but part of the jaguar (piece of
skin, or the ear) is bal = a new
'glyph' used for infixing or af-
fixing. See ak^a-bal-lahun (ak^a-aba-l-
lahum = one-from-ten/ BOLON 'nine').

muš₂ is a rather cryptographical
use of the muš₂-glyph which
chiefly means 'rain, year', like
hab, which means 'year, rain'.
muš₂ has been constructed by employ-
ing muš₁, which consists of
mu, 'bird' (= and/or phonet. mu),
with the water-marking droplets.

That cryptography refers to Sum.
Lowld. muš₁ 'jaw', 'ten', Highl. maš
(which both can replace Akkad. lahum
'jaw, 'ten', cf. Maya lahun 'idem').
Along the line of Old World Turkish
alt-miš = six jaws/six tens = '60'
or yed-miš 'seven tens = '70' the
Maya ka-muš₂, 'two jaws/two tens'
= 20 was logical. On symmetrical

grounds the ka-glyph embraced the
muš₂-glyph, the right side ka being
the mirror reflected counterpart.

The main characteristic of muš₂ is

For fish : fish
instead of
fin : fin see
Morley 1915 p28
fig.13-j KATUN
Cf. R.Borger 1981 ABZ p104
n⁴⁰¹ Pos.12-A-a: har 'fish'
which should be "kar be-
cause of It kpr- 'array'
whence Engl. herring,
Sesban Mering, with fish-
cognates even in Coop.
and Basque.

Cf. the 4 Ma-
caw-bird-years
= the 4 big
years of 365/6
days each sub-
divided into 18
months of 20 days
each. Cf. the
Dresden Codex p40b, in
this MTED, in
the context of
regular inter-

Sumer

Indirectly obtainable

40 Borger 1981 Ass.-Bab.Zeichenliste
n15

Pos. 5-a: Sum.Highl. ka 'mouth'
probably from Aryan ghas-
= Iran. gah- 'to eat'; Lowld. *ku.

45 The Maya depicted when the numeral
two was involved, the mouth-line
(in their - in profile drawn -
head portraits) with two teeth emer-
ging: ka = 'tooth',
50 For Sum. muš₃, 'rain' see MTED muš₁.
For Sum. hab, 'rain/year' see
MTED hab.
For Sum. maš 'jaw'. maš-maš 'the
jaws' (= Highl.) and n74 Pos.86-a':
55 muš₃ 'jaw' (= Lowld.) see e.g.
MTED ka,b-lahum '20'.

Note that the Maya have ko 'mouth'
almost the Lowld.var.of Sum. ka 'id.'
A connection between muš 'rain' and
'year' received weight on account of
Sum. n61

Pos.7-a: Sum. mu 'year, when'
Pos.7-a': Sum.Highl. *ma 'id.'
cf. hamā f. = Sanskrit ¹⁰ samā 'id.'

65 Maya, continued:
that it is infix in a case or car-
touche which has an additional sign
infix: namely 6 drops,

which in related glyphs can
70 by the vertical bar = 5,
and a dot or circlet below, = '1',
thus $5 + 1 = 6$, be substituted.
This is in Babylon $6 \times 60 = 360$ days.
The Day-19-KAWAK-storm-glyph has
75 the 6 drops and in a variant the
bar and dot (= 6).

calation of an
extra-day at
the end of the
fourth Macaw-
year, i.e. leap
year, as disco-
vered on May 28,
1993 in the
Dresden Codex
p40b by the
author.

We have learnt that the initial part
of a word may be used as a phonetic
syllable of the CVC-type. Cf. bal
from balam 'tiger/jaguar';
Wellknown is ka from kar 'fish';
Very important is the phonetic use
of hill 'crescent', concurring with
il 'to see' (from Sum. igila 'to see').
Don't forget kab 'hand' when used
to denote ka,b 'two' with the b-plural

Maya Transition Epigraphic Dictionary

The deciphering attempt of the killer-portrait-glyph at the bottom of this page stems from May 1993. Now, in February 1998, a better explanation is feasible. After I deciphered 2,000 texts of the Indus Script, starting in 1994, I completed 2 months ago Chapter 3 - Celestial Deifications - of ISB (Indus Script Deciphering), submitting on various pages what the Indus Culture told us about the planet Saturn which is, globally the God of Death, called in Indus Sani like in Sanskrit. The Maya, like other archaic civilizations, retained celestial numerology as a lesson of harmonious timing established under divine control providing stability and order in the Universe. The head-glyph's lower jaw is in Maya called lahum (so also in Akkadian) which lahum in Maya means also '10' (IE dakas). It is in Sumerian (and also in Maya) called mas, likewise meaning '10!' (clearly retained in Turkish alt-miš '60'; yed-miš '70'; yir-miš '20'). The two teeth of the glyph's mouth mean: 1 tooth = ka, which means also '2' (in rebus); ka-mas then means '20', and the other tooth means 'the second power' (of twenty, which is 400).

Maya

ka-m.i.s-es, 'killer'

There is a head-glyph in D. Kelley 1962 p25 which he thinks

means (in Neo-Mayan) cimil 'death' but which is rather 'Killer-God'.

There are the upper jaw teeth, 2 of them, that makes ka.

Next is the lower jaw-bone which should be mas, but could also sound mus (= Sum. Lowland), and even mis (Sum. E-mesal-Dialect). Together that makes kamas, or better kamis - to approach kam-sa - 'to make die = to kill', with -i- as a glide to avoid a consonantal cluster. To make this clear,

I transcribe ka-m.i.s . .

What makes it a nomen agentis would be -is or -es. The scribe chose es, the full moon depicted in the eclipse

glyph of the Dresden Codex.

He infixes this moon-glyph, most poetically, as the portrait's eye (Sun and Moon = the eyes of the World Giant

is a universal in archaic thinking). For the characteristic three circlets was not enough space inside the full moon glyph, so he placed them in the area of the eye-brow.

With the full-moon-es-glyph as an eye-infix being at the same time a nominal suffix



ka-ka-mas-es,

'2nd power of 2x10 Moon
- Planet of 400 Months
Saturn's 30 year orbit
Saturn, Killer-God

The eye of the glyph is, clearly depicted, the full Moon, - Maya es. Now, please, what means 400 Moons or months? This is about 30 years, solar years. And what means 30 years? It is the revolution-time of planet Saturn, the killer-god, globally. Indeed, the Maya and all the ancients liked to name the planets chronologically, after some typical number of days. Planet Jupiter's number in Maya and Indus is 400, round of 399 days, the result of $7 \cdot 7^2 - 7^3 = 399$, in days the length of Jupiter's synodic year, a reason for Jupiter to be called the planet/god of the holy 2. For more, including other planets, see MTED sub kuk (Sumer gug) - planet Venus. My new reading of the killer-glyph is thus . . . ka-ka-mas-es - '2nd power of 2 x 10 Moon' - 400 Moons - about 30 - needed by Saturn for a revolution.

Sumer

For etymologies see MTED es,
full moon and mas 'lower jaw'

Maya, continued my arguments as to es, = 'full moon' have found confirmation.

From this analysis it appears that the scribe had good notions of grammar, and was, at the same time, a good artist or rather painter.

But perhaps the portrait is the work of an Academic Committee since it obviously refers to a divinity. Usually, such portraits are of high antiquity and are of an emblematic nature.

The analysis and reading of emblems is a source for entering or understanding writing prior to the introduction of CV-syllabic writing.

The elements (to be read in a mixture of rebus and phonetics) presented in this portrait reveal and confirm spellings of lexical items of times much preceding Palenque's 700 A.D.

Also in Europe the study of heraldry offers good chances to arrive at languages or words as spoken at the time the heraldic figure, escutcheon, blazon, emblem etc. was created.

The true name of King Kakupacal deciphered! The relative study below should be liable to make history as that king did in Mayanistics. Perhaps not a new Knorozov case that also has made history.

ka₉-ka₉-lahm-
kan₄-sa₄-kab₂, KUK - (1)
pa-ka-l(a),

Schele's Kakupacal
a Personal Name, Ruler
of Chichén Itzá

MTED / Maya Transition Epigraphic Dictionary

For VENUS
See MTED

Maya ka₉-ka₉-lahm- '400-fold'

Sumner, Akkad, Persian KUK I-V

kan₄-sa₄-kab₂ KUK pa-ka-l(a),
dead-maker-fist of Venus, the shield
= 'The Warrior of Venus, Shield'

For Old World kab 'hand'
see MTED kab₁ and kab₂.

For Sumerian *gam-za- =
'make die' = 'to kill' see
MTED kan₁, kan-sa 'id.'

5 The Chomsky sumptuous non-diachronic Language Philosophy is not a means to reconstruct - in a satisfactory manner - the old original language of the Maya inscriptions. Let us,

Maya pakal 'shield' stems from an Iranian *tvakas' 'id.', cf. IE twakos 'shield' (whence Greek skákos, -eos, -ous nt. 'shield') and Sanskrit tvák f. 'skin, bark'. With b- from dw- it is likely that Maya p-

10 e.g., investigate the PN (Personal Name) of the ruler 'Kakupacal' as written on the Frieze of the Casa Colorada at Chichén Itzá (cf. Schele/Freidel 1991 (Munich) p416, or, resp., p414 Abb. 9.11, C-5). Day 6, KIMI*

spariēs 'wall of a house' from *twer- 'to embrace'). The final -l from -s is already a Mesopotamian development.

A modern Chol-fan Mayanist would probably explain the Ka₇ name (in the spirit of Chomsky) as a Neo-Mayan compound kak-u-pacal -

Maya, continued :

20 'Fire its Shield' or something like that. The crux is the first syllable. In all instances it is written by means of ka₇ = 'a ligature', and not by using any other ka-sign:

25 The basic element is kab₂ 'fist, hand' correctly drawn, with wrist-eye. The fist subsequently adapted to look like a head glyph, that denoting 'to die',

30 ka₇-4 or of a reverential William-case ka₇ which actually sounds kan-sa-kab, and which means 'warrior'. The trouble is that later some people used kan-sa-kab to denote a ka-syllable. Honest people will not do so. Every Mayanist should be capable seeing that the "William-glyph" is a ligature:

35 kan-sa 'encounter a Sum.- and Old Maya (Highland) Wam-sa-kab causative *tvakas' : free meaning: The warrior of Venus, the shield (protects the nation).

40 Kab₂ + Kam-sa₄ = tawak = ta-ka

45 Note the variant killing-glyph kan-za which uses the -za-causative, later denoting lu -

The crux is ka, which correctly written looks as here depicted.

Knorozov's discovery of CV-phonetic writing in Maya hieroglyphics covers a rather late phase of Maya script evolution. The many additional more or less valid CV-values especially those with a high 'index-number' (of minor frequency) are liable to be read if glyph-structuring imposes. This does not wholly exclude the 'Neo-Maya' sa-

secondary syllabic reading. Involved is here the case of ka₇. This glyph is a ligature/ a merger of three elements: 1) the kab-fist-glyph which may mean 'assistant, vizier' (cf. MTED ba-kab); 2) The kan/CUNIE-glyph which means 'to die, dead'; 3) the causative glyph sa,

here infixated, but suffixed to kan -

means 'make die, to kill'. Kelley's presentation of King KAKUPACAL's name is somewhat correct (See 1992 p160 is terrible.) pa



ka₉-ka₉-lahum-
kam₁-sa₄-kab₂ u₈-KUK₂ (2)

As to lines 708 to 900 - The 400-fold killing Hand of Venus!
see for more detail
sub MTED as:-ras hu-KDK₂

MTED / Maya Transition Epigraphic Dictionary

Maya ka₉-ka₉-lahum- '400-fold'

Sumer

Venus is here written very archaic since KUK = Sumerian gug (and u-gug) has here still the Sum. prefix u- (Iran. hu-) = 'wall, nice'.

ka₉-sa₄-kab₂ u₈-KUK₂ 'Venus-warrior'
'killing Hand of-beautiful Venus!'

The Case of k'a₄/ca₄

It is somewhat delicate to speak of one or more errors which seemingly occurred to prominent Mayanists such as Schele/Freidel or Michael Coe, errors which, being contained in famous publications, are now almost ineradicable.

10 The grossest case of ignorance is in the handling of Chichén Itzá, Casa Colorada, Rendering of that Ruler's name now known as Kakupacal. PACAL - 'shield' is correct. But k'a plus ku is horrible. Compare the case of the syllable to discussed in MTED muš₁-muš₁-ka(r).

The true reading of the k'a/ca-glyph is in agreement with its structuring. It is a ligature, that is a fist/hand - MTED kab, with inserted the sign for dying (26) is a reference to the causative -sa) resulting in kam₁-sa₄-kab₂ - 'hand that makes die' - 'warrior/murderer'. The syllable to has its twofold reading (muš₁-muš₁ being the older one), and so has lu (kam₁-sa₄ - 'make die' being the original one). - kam plus .

3c This means that the reduplicated k'a (or ca) translated as Maya kak 'fire', requires a new interpretation. In the first phrase of the Frieze of Casa Colorada (Chichén Itzá, see e.g. Schele/

The ruler in Chichén-Itzá, presently known as Kakupacal, appears in inscriptions dated 869 p.C. This implies archaicity in glyph writing and reading. The name, correctly read, sounds kam₁-sa₄-kab₂ u₈-KUK₂, and means 'killing hand (= warrior) of Venus'.

His surname is PACAL - pa-k'a-l(a) - 'shield', or better: 'The Protector'.

Ka-ka₉ is a more than dubious reading. Distinguishing of ka (- k'a) and ca among Mayanists is arbitrary and controversial. To stick to a

ka₉ assumed to appear as a ka-variant (variant of ka₁ - 'fin of a fish' as contained in PACAL 'shield', part of the ruler's name) would be narrow-minded. A ka-use in later periods will have to be explored. The next glyph, ku (- ku₂ cf. ku₂) and ku₂ and ku₂ stands, as an abbreviation, for ku₂, which is actually ku₂-ku₂ or ku₂-k(u)₂ - KUK₂ - 'Venus'. More archaic: u₈-ku₂-k(u)₂ - Sum. u-gug 'Planet Venus'.

35 Borger, Rykle, 1981, ABZ n88-A KAB / QAP₂ Pos.1-a: Sum. kab 'left hand, assistant' - Semitic qap 'hand'.

n362 GAM/GUM Pos.6-a: Sum. gam 'to die!', 'to make die, to kill' (- Highl., Lowld. is

Pos.6-A-a': gum -se, cf. n192 GAZ/4 KUM x SE Pos.2-a: kum -se 'to kill' Pos.2-a': Highl. gaz 'id.'

from *gam-za ; see for details MTED kam, n418 U-GUN Pos.1-a: Sum. u-gun 'Venus' Pos.1-a': Sum. u-gug 'id.' both = 'wall-gay-colored'; for more see MTED KUK (1).

Maya, continued : /Freidel, 1991, Munich, p416), there appears, allegedly, 'his fire', which should be understood to : mean 'his warrior-warrior' - 'his army' or 'his devastating forces'. This latter notion, metaphorically, means also 'fire'. Maya kak itself stems seemingly from *ko-k(o)/kau-kau/kab-kab as discussed sub kab₂-kab₄ 'smoke, flame', also 'fire',

A spectacular case of misreading follows, ibidem, presented as Yax-uk-Kauil. The well-known references to the time propitious for waging wars, e.g. FIRST (APPEARANCE) OF THE EVENING STAR, here: "FIRST CONJUNCTION OF MOON AND VENUS, is, with hu-KUK₂ Yax-uk, by no means explained.

Correct reading is MOON YAS = f/ir/t u₈-KUK₂. It follows a distorted 'war'-sign, then

a 'kam₁-sa₄-kab₂ - WARRIOR, then, distorted, kab₂-kab₄, then, suffixed, ul- and finally, postfixed, -la.

The whole meaning: WAR OF THE WARRIOR HAND-OF-KAUIL.

Note that in Sumerian graph 418 (line 89) means U and MU, which supports u-GUN/hu-GUN

- Planet Venus, 'nicely colored'. Just like the nicely colored Quetzal-bird.

As to kab, 'fist, assistant, helping hand', note that I read sometimes kab₂-kab₄-hill - x-Kabil as 'hand of Kabil' - warrior'. This fits to 'Hand or warrior of Venus'.

As to Maya kam₁-sa₄ 'to kill' ('to die') note also Akkadian ka-kabu 'to kill' - pleonastic causative ka- + -ka stemming from Sum. gam 'to die' with gaz 'kill' 'gaz-i

■ 362, 14/192, 4

MTED / Maya Transition Epigraphic Dictionary

Maya

ka₉ lahum-mu, " 'twenty years'

ka₉ = tooth, also 'two'

lahum = jaw, also 'ten'

5 mu₁, ' = 'bird', mu₁, " = 'year'

2 x 10 + year = 1 KATUN = 20 years

A range of head-glyphs, from luxuriously drawn ones to very simple ones, mean KATUN = 20 years.

6 Certain ones have got ka, the fish-fin or comb-glyph, meaning 'two'. For 10, some use mu₂ seeing in it the Sum. mu₂: Lowland 'jaw'-counterpart of Sum. Highl. maš 'jaw'.

7 Here is analysed the KATUN brought by Marley 1915 fig. 27-g. We see the

lower jaw bone lahum as its superfix a tooth



8 = ka₉, the long tongue

lak perhaps supporting lahum's sounding. In the upper part of the ear region is -mu₁, here obviously meaning year as

9 mu₁ does in Sumerian. Other adjunctions which could make the whole glyph-block to a PN / Personal name of no interest now.

The next KATUN is from Palenque 3. Trilogy I, R-3. Again the jaw, the tooth, the tongue, and mu₁, inserted in the eye.

Thus ka-lahum-mu,



or more correct ka₉.

10 And again 3 unfixed minor elements.

The reader of MTED may be patient enough to follow the capricious

A pseudo head-glyph meaning 20 is seen in Gates 1931:86 (his n58-b) where 2 teeth = ka₉-ka₉ and lahum 'jaw' implied mean 20.

=20



Better = 400

Maya mu₁, " 'year' alternates with Maya hab, and mu₂, 'year', of which the meanings as to their length are floating. But see MTED tin-hab, = 'small year', (I): of 260 days (II): of 360 d.

The best name of a 360-days-year is mu₂, because its glyph has an infix which gives the Nr. 360/TUN.

Discussed is here also the head-glyph for the ka.b.-lahum-hab, where the hab is in rebus from Day-20-hab.

Maya time-counting is well-understood but the related nomenclature and glyptic rendering, analytically, is often a wonderful field for acquiring a great amount of really proto- or old-Mayan-sounding vocabulary, and the graphic renderings involved. Many body-part-names and their uses in phonetic rebus do form the basic elements. There are, e.g. the hand (hab, meaning ka.b = 'two') or called katum (= Akkad) meaning also 'hand' (= Akkad), the lower jaw (3 or 4 synonyms, all meaning also 10), the tongue (serving as a complement), the tooth (- ka), which means also ka₂, the eye and the ear, receiving infixings.

ka₉-lahum-mu, "
tooth-jaw-year =
2 x 10 = 20 years
1 KATUN

in head-glyphs luxuriously drawn

Sumer

Graphs corresponding with glyphs:

10 Borger, R. 1981 Ass.-Bab. Zeichenliste n15 KA 'mouth'
Pos.5-a: Sum. Highl. ka 'mouth'
Pos.5-a': Sum. Lowld. *ku, 'id.'
prob. from Highl. g'hah 'to eat'
cf. Sanskrit ghas- 'to eat'.

n74 MAS, BAR
Pos.86-a: Sum. Highl. maš-mas 'jaws'

This is from Anton Deimel SL (Sumerisches Lexikon) 74,198, ma-aš (K 4141) = Akkad. lahū 'jaw'

Pos.86-a': Sum. Lowld. *muš, 'jaw'
Pos.86-b: Akkad. lahū, lahum 'jaw'

Affinities: Neo-Mayan ka-matš 'jaw, 10'

11 Maya lahun, -lon 'lower jaw-bone, 10'

See e.g. MTED ka.b-lahum 'twenty'

n61 MU (see MTED mu, 'bird')

Pos.7-a: Sum. Lowld. mu, 'year'

Pos.7-a': Sum. Highl. *ma, 'year'

6 from Highl. hamā, Skt. sama 'id.'

That there was in Maya a transparent mu, 'year' is made clear sub MTED mu₂ = TUN, from mu-uš plus discritica: 6 circlets: 6 x 60 = 360

6 Maya, continued:

Maya scribes who wrote the numeral 'two' by means of ka 'fish fin', ka₉ 'tooth', ka.b, 'flat hand, horiz.', ka.b₂, 'fist! The head-glyph

7 KATUN Palenque TFC I (Gockel 1988 p235) explains with the nose-affix Day-20-hab-Lord that the scribe here wished KATUN to be read

7 as ka.b-LAHUM-hab (not mu, ")



TFC I

MTED / Maya Transition Epigraphic Dictionary

Maya

kab, 'hand', also 'person'

ka.b, 'two' = ka- + -b
(-b = the Elamite plural-suffix
is often added to the numerals
in all Maya languages)

The picture of a horizontally extended flat hand pointing to the right is one of the various hand-pictures which are called kab. They are also used as auxiliary phonetic signs belonging to the list of phonetic CVC-syllables. The one in reference here, kab, is T.217 in Thompson's catalog. All the different hand pictures do carry in the region of the wrist a circle with a dot in the center. This is, globally verifiable, the eye-metaphor standing for 'knuckle, joint', an iris plus pupil, often plagiarized by the painter Picasso, espec. in connection with feet.

The second way to render ka.b 'two' is using the glyph kab = a lifted fist. In this case '2' is transcribed ka.b 

The Sumerian Lowland kub-reading is also admissible in Maya, = kub, q.v. and, analogically, kub etc.

In the early phase of Maya script the scribes wrote what they spoke and they spoke what they had written. As a confirmation, see ka.b-lahum, a head-glyph numeral meaning $2 \times 10 = 20$, which is one of the various ways to denote 'twenty'.

The kab-hand-glyph does not only render kab, 'hand', and ka.b, 'two' (cf. Tzotzil tde.b 'two'), but also in phonetic use e.g. Old Maya a₂-kab, = 'water taking' (discussed MTED sub a₂-kab). However, be careful, there exists a kab-glyph = 'fist', depicted  This kab means also hand in the sense of 'assistant, vizier', see MTED sub ba₁-kab. There is even an instance in which kab  means '5' since the origin of Maya ho '5'

Sumer

kab 'hand, left hand; assistant'

Borger, R., 1981 ABZ n88-A  KAB, Deimel, SG 272 Pos. 1-a: Sum. kab '(linke) Hand, Gehilfe'; Semitic qap 'hand' A Lowld. variant kub is admissible.

The Old World hand-name is a mixture of at least two similar roots: kap- (Latin cap-) 'take in hand, to capture', with Germanic hab- 'to have heave, hold' (cf. Germ. heben) and an IE (= Indo-Europ.) qop-/k^wop- and qep-/k^wep- (Ablaut-couple) the latter of whom produced Persian čab 'left hand' which in Sumerian did not suffer the qe-> če/ča-sound change.

That is why the notion 'left hand' partly survived; qop-/qep- is believed to mean 'curved'.

The prevailing 500 aC-Babylon. qap/kab 'hand' reached Old Maya.

Maya, continued:

Seemingly just for fun the scribes changed in one and the same document the rendering of a term or of a notion probably in order to train the readers also to think etymologically and historically across the millennia. Engl., French and German does the same in retaining Greek ichthys ('fish'), phth (diphthong, = au, ai) etc. Not so Ital. and Span., which is a pity.

goes back to hau/hab/kab that is kab, 'hand' due to 5 fingers. And kab, when covering the lower jaw, means at the same time ka.b '2' AND lahum 'jaw/10' = 20. Kab, is a comblike hand,  while kab-kab, is a different word sounding like kab, but meaning 'smoke', and having its own smoke-sign:  . Kab, is proto-Mayan, it is the vertical bar/staff which means 5 = modern-Maya ho,  = 5

Kab, (a ball-sign) means Earth, kab, 

The kab-hand-glyph means, via katun (- Akkad.) 'hand' also katun (- Akkad.) 'end' This reading emerges only out of the context.

And there is, inter alia, also the grasping hand sounding thi, originally *tšu, an own term, in rebus meaning 'to sink' (both meanings are loans from Sumerian ū) 

ahab-ka.b,-lahum
year 2 times 10
the 20-year period



ka.b,-lahum
2 times 10
= 'twenty'

MTED / Maya Transition Epigraphic Dictionary

Maya

ka.b,-lahum 'twenty'
variant ka.b,-mas

In Old Maya lahum and maš was = '10' and 'a lower jaw-bone'. Accordingly (as is well-known) the picture of a jaw-bone means '10', espec. in the head-glyphs of numerals.

In Mesopotamia, Akkad. lahū, lahum means 'jaw' and Sum. maš-maš 'jaws'.

10 Maya has ka-matš 'jaw', probably 'the two jaws'. It follows, that lahum '10', depicted as a jaw, means likewise 'jaw'. That maš 'jaw' meant also '10' in the Old World is suggested by Turkish (which has many Sumerian words) $yed\text{-}miš = 7\text{-}10 = 70$, and $alt\text{-}miš = 6\text{-}10 = 60$.

11 The Maya scribes forced the readers to use their mind. When, in a head-glyph numeral, the ka.b,-hand (meaning 'two') covered/obscured the jaw, the meaning '10' of it was not cancelled. In this case the head-glyph in reference had the meaning



12 The glyph here studied is found in Palenque as a stucco 13-glyph in Temple XVIII (Berlin 1977:171 Nr.43). A variant, similarly structured, also in Palenque, must be read ahab-ka.b-lahum = 'years-twenty' = one KATUN. It would be foolish to learn Maya-Script in the Chomaky-way, just.

14 getting the meaning without analyzing the structuring and the etymology.

In Sumer, 20 is the holy number of the Sun, 30 of the Moon.

Here a better drawing of the KATUN-glyph of Palenque Triloby I B-3 and TFC I-1

It is clear that the ka.b,-hand-glyph which covers the lower jaw, denotes both, ka.b '2' and lahum/maš-jaw/10 = 20. The Ahab-lord-glyph affixed to the nose recommends a hab,-

Sumer & Akkad

'twenty' in Sum. is man-one = Mensch-einer, = 10 fingers and 10 toes. Cf. Maya uinal 'man' and 'twenty'. Sum. niš '20' is Lowld., previously nu-uz, Highld. na-aš similarly Sum. nimin '40', from Highld. na-dbin, Sanskrit na-dvīn = men-two (cf. Germ. zween '2' or Engl. twin, or Engl. twin 'Zwilling'). Sum. n471 <> Pot. 2: niš

Rykke Borger, a Göttingen assyriologist, in his ABZ / Assyr.-Babyl. Zeichenliste, 1981, Kevelaer, has: n74 ~~MAŠ/BAR~~ MAŠ/BAR
Pos. 86-a: Sum. maš-maš 'Kiefer/jaw',
Pos. 86-b: Akkad. lahū, lahum 'id.' For maš 'jaw' (maš-maš is obviously the plural) think of Lat. maxilla. Highld. maš-, Sanskrit maks-.

The human mind is not as inventive as the ignorants believe. That is why languages are much more closely related as said ignorants can imagine. The standard linguist is simply too lazy to study as many languages as possible.

Not so the Old Maya scribes. They had, at the beginning, profound knowledge of various Old World languages.

15 Maya, continued:
The variant KATUN-glyph (Palenque TFC I-1) has ahab 'Lord' as forehead-affix, read ahab 'year'.
= ahab-ka.b,-lahum = KATUN



(20-)year-reading.
But pleonastically, the mu,-bird/year-glyph inscribed in the eye reveals that the scribe was aware of Sum. mu 'year' so that together with ka.b-maš = 20 he strengthened the KATUN-20-year-meaning of the head-glyph. But the 4 droplets along the eye's lower rim were made

a reading mus, = 'rain/rain season/year' also possible. The last mus, 'rain' is of course also Sumerian, see MTED sub mus, 'rain'. For deification purposes the scribe resorted to Ahab 'year instead of affixing hab, 'year' . So seems it.

Listing of
kab-values

Middle-Maya
hab-lahum '15'

MTED / Maya Transition Epigraphic Dictionary

Maya

kab₂ 'hand, 'fist'

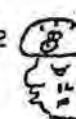


ka.b₂ rebus for 'two',
= ka 'two' plus Elam. pl.-b
like kab, 'hand', ka.b, 'two'



- 24 The Maya value kab requires indexing, according to different glyphs, as follows: kab, 'flat hand', kab₂ 'hand, 'fist', kab₃ 'hand point'² (used one time to denote kab₃ -h₁ = Kauil 'the war God'), kab₄ 'the smoke or flame sign, T.122' which is also read itsi 'fire' (= izi 'fire' in Sumer) and pu/bu 'to blow, smoke' (cf. bu 'id.' in Sumer); kab₅ is the horizontal and/or vertical bar meaning 'five' because 'hand' globally, in many languages, means also 'five (fingers)', and modern Maya ho stems actually from 'hau', 'kau', kab. The scribes saw often little difference between h- and k- when resorting to rebus writing.

- 25 It seems that kab/ka.b₂ 'the raised fist'
= T.669 and T.672, was, as compared with kab, given



Kelley
1962
p.33
two'

- 30 preference since it suits better for inserting other glyphs, a method also used in cuneiform writing of Mesopotamia for obtaining irrevocable lexemic compounds.

- 35 All head-glyphs denoting the numeral 'two' do carry as superfix the ka.b₂-glyph, of course



The correct rendering of the flame/smoke-sign T.122 is really kab₄-kat₄. Sum. 'kab', Sem.kabb, IE kav-, cf.Gr. holFo-kau-stos 'whole-burning'



T.122
From kab-kab as meaning 'burning' a term 'star', kau.kab invaded Semitic.

Gates
1958
p.27
'two'
Palenque
headglyph '2'

Many head-glyphs do carry on their cheek the marking II, especially the numeral head-glyphs. Meaning is still unknown. The scribes liked pleonastics to ensure quick understanding. The above head-glyph denoting '2' with in the ear-region 2 circles does magnify the 2 dots meaning '2'.

Sumer

kab, qap 'hand'

for graphemes see lemma kab, ka.b,

Maya, continued:

with the wrist-'eye'-circle. In some cases, 2 additional little circles are seen superfixed to the 'eye'-circle.

They may serve as additional diacritica, being the 2 dots or circles which commonly mean 'two', to emphasize the head-glyph's meaning.

Sub line 23 on this page I invited attention that the scribes saw little difference between h- and k- when resorting to rebus-

writing. Here the case of Maya holhun '15', properly hau-lahum, written, by superfixing hab, 'year' which proves

that at the time the head-glyph '15' was invented, Maya ho '5' was spoken hab (and still earlier kab, 'hand') See line 17 above.

Note the correctly drawn lower jaw (Akkad. 'lahum/lahu) which means 'ten' (Modern: lahun, -lon) in Maya, emphasized by Gates 1931 p86.

The holhun ('15') head-glyph is submitted by David Kelley 1962 p33.

But there is some ambiguous head-

glyph-writing to be noted: '12' in Palenque carries hab 'year' as superfix (which could here mean ka.b '2', but the jaw is missing. In the ear-region is an axe).



15 kelley
1962 p33

The various head-glyph affixings, though looking ornamental, are certainly meaningful, mostly in the sense of pleonastics.

The head-glyph denoting '15' (Kelley 1962 p33), see picture above, has in its ear-region the bar which means 'ho' '5' from kab. I venture to see here an outer bar and an infix inner bar, thus 5+5 = 10. That makes the rest of the superfixings (kab₄-kat₄, the smoke-glyph) readable 2+2 so that the circle on top of the ear-'ten' means '1'.

An attempt to reconstruct proto-Maya-decadic numerals and those from 11-19 is premature. A Yucatecan ho-lahum '15' and reconstructed 'ha-lahum or even 'kab-lahum is not binding. This would mean havoc since we have obtained many 'ka.b-lahum-forms as meaning '20'. However, reckoning/counting was by the Maya performed in unmistakable written operations open to the insight of modern researchers being praised as excellent.

MTED / Maya Transition Epigraphic Dictionary

Maya

kab, 'Hand pointing at South-West' so far a phonetic sign that can replace the — bar = 'five'

⁵ Among the numerous ways God K, = God Kauil, the War God can be written, Scheler/Freidel (Munich) 1991 p195, right side, above, show us a compound-glyph consisting of T.122 = kab-kab, followed by kab, = the comb-shaped hand, then the T.181 crescent hil. As usual, they label it 'the smoking God K'.

⁶ Ibidem, p197, the authors show us God K written in the same way, the difference being that comb-shaped hand is replaced by a vertical bar ^{p197} fig b) ⁵ which denotes 'five'. ^{c-5}

The scribes obviously wished to make clear to the reader that 'hand' and 'five' sounded alike and could, phonetically, replace each other. The phonetic value in question was certainly kab as required to write, phonetically, kab-hil = God Kauil, with prefix kabilu, Akkad. qablu 'battle'. The -i- is a glide to ease the pronouncing of a consonantal cluster, typical also for Sumerian and many other languages.

Mysterious is what T.122, the smoke-sign, means here. The 'smoking God' sounds too much like 'sitting Bull' etc. The evidence submitted sub T.122 as a prefix to T.181 'crescent' hil makes no allowance for 'smoking', since it is revealed, with kab-kab 4.

For more on the battle god Kabil see MTED sub Kabil. The -i- of Kabil may stem from an Akkad. oblique *qabil-, cf. aplua 'son', obl. apil-; Akkad. qablu 'battle' means also 'middle'. The Maya final -il of Kabil is always written -hil 'Crescent', never -il 'to see'; maybe the glyph -il is of younger date when its full original spelling igila (- Sumerian 'to see') was finally converted to sound il. This would prove high antiquity of the god Kabil -

Sumer

⁴ kab (linke Hand), qab 'hand' for details see kab, means also 'servant, person'

Maya, continued:

that more than the name kab-hil 'God K' was meant to be expressed. It fits excellently into a ruler's titulation to be 'a hand of God K' though somewhat cryptographically written.

⁵ In the two cases here studied I propose to see in kab-kab (though written with the smoke-sign) the plural of the hand; also in Sumer, reduplication is a means to denote (not in all cases) the plural. It follows that the above depicted graph compounds both mean 'the hands of God K', or in a common sense, 'the warriors of God K'.

⁶ I said 'title' of ruler, not 'king'. This is because I found a better explanation for a certain mysterious title than the Gentleman of the University Museum, Philadelphia, Pa.

I read the title as sounding sa-ka-ua which is the Sumerian rendering of Old Persian xšāspān, NW-Iran./Avestan xaθrapān, Greek/European = Satrap, cf. Sanskrit ksatrapa 'Kingdom, Empire' and -pan 'guarding'. We can now, from this title, humbly derive that the Mayan rulers humbly considered themselves to be governors or viceroys of Darius The Great in Mesoamerica, like Columbus and others once more later.

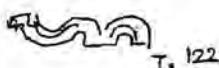
here: kab-hil(-l^a). The subscribed -la ^(Y) is a complement to make sure that -hil is actually -hil (such complements are used in cuneiform Sumerian and in the Indus script). The smoke-glyph is very problematic. Etymologically, kab-kab stems from 'burning'. The reduplication recall 'intensification' a/s may compare the battle with a thunderstorm. But since various meanings are involved, we will encounter kab-kab ⁴ on many more pages of this MTED.

kab
'hand' comblike
a phonetic value
so far, but may
replace the bar
which means '5';

secondary
value: itsi = Sum. izi
'fire', bu/pu and bu/phu
'burn, blow' (Akkad. pahu)

kab₄-kab₄
'smoke/flame'
also 'fire'

MTED / Maya Transition Epigraphic Dictionary



T. 122

Maya

kab₄-kab₄ 'smoke, fire' T.122
secondary value: itsi 'fire'
and pu/bu 'smoke, to blow'

The glyph is a real picture which explains the different values and makes it liable to be used and read in whatever language. It serves also to emphasize the fire-notations rendered by other glyphs, see the case

10 kab₂-kab₂ 'fire' (which produced via kau-kau, ko-ko, kaka, kak 'fire' phonet. cf. ho '5' = hau, hab, kab).

In MEXICON XIII-1991 (Grube/Schale/Fahsen, 'Odds and Ends') p11, fig.6 15 topos B-2, we see the T.122-sign prefixed to the crescent, as the final part of the royal name Waxaklshan-Ubah-K'awil (= Kauil, the

20 War God, Maya Kabilu = Akkad. qablu 'battle') Here, kab₄-kab₄-hil is warrior of Kauil

a rather cryptographic way to express kab, 'hand, person' and kab₁-hil = Kabilu/Kauil 'War God' which means 'Hand of Kauil' = warrior.

We will see other instances in which 'hand, person' in connection with 'axe', 'blood time' means 'warrior'.

25 In addition, this here is a fine confirmation that the crescent's name in Maya is hil, cf. Semitic hill, hilat 'crescent', a symbol of Islam.

Another recurrence where hil 'crescent' is better drawn, is seen, ibid., fig.2 South Side of Quirigua Stela 1, topos C-5 as a

As to line 69 above where the causative sign -sa has been mentioned, I propose a Maya-praform "kab-sa", 'to make burn, to kindle'; the IE languages know 2 postfixed causative morphs, -y- and -s-. They merge where, like in Sumerian, -y- becomes via -Y-, a sort of -z- or -s- or -s-. In Asia's Far East (Korea, Japan) and in Circum-Pacific languages an archaic -ti is prevailing which explains the Western -s- and -y-. Note that Greek has "kaf-y-ō" 'I kindle' which would make a Sumerian "kab-ī- and a Maya "kab-sa-

Sumer, Akkad

4* kab, kabb 'burn, grill; smoke'

Rykke Borger, Göttingen, 1981 ABZ n88-A KAB, Deimel sGr
Pos.1-a: Sum. kab '(linke) Hand'
Pos.1-b: Semitic qap 'hand'
My addendum:
Pos.1-A-a: Sum. 'kab' 'to burn'
Pos.1-A-b: Semitic kabb 'burn, grill'. IE (= Indo-Europ.) kaw- 'burn'
(cf. Greek kaiō, kaF-y-ō, kaw-s-y-ō
is Iran. 'kav-, Sum. kab, Semit. kabb as in Arab. kabab 'grilled meat'. A variant kap-/k'ap- produced Greek kap-n-os, Lat. vapor 'smoke, steam' and is at the bottom of Sem. kap-r- 'village', cf. Maya (Ixil) kábal 'house' and kab 'pueblo', Stoll n55.

Note also pan-Semitic kau-kab/kab-kab 'star' as a little fire-spark.

Maya, continued:
title (= warrior of Kauil) before a name-sign.

Mostly used for denoting 'fire' is the reduplication of kab₂, that is 'fist-fist', altered to look like a head-glyph, with black eye and the causative-sign -sa₄ infixated in the cheek-region. Pleonastically, T.122 is subfixed and the reduplication cancelled. (Schaele/Fr. 1991 p415)

Other roots are involved to produce a kab₄-kab₄ 'smoke', think of Greek kaphnos 'smoke'. Even Semitic "kapar- 'village' (Arab. kafr) means actually: Look over there, I see smoke! This semantic development is globally attested. High-speed-talk-requirements produced finally, via "kau-kau/ko-ko/ka-ka/kak 'fire' in Maya. That the kab₂-sa 'fire'-glyph was transformed into a sort of head-glyph was to comply with fire as a deity.

The kab₄-kab₄ 'smoke'-glyph appears prefixed, super- and suffixed. Often as a determinative as in T.122 (line 73 above). Certainly as kab₄-kab₄ in Maranjo Stela 24 D-71 superfixed to -hil, thus rendering kab₄-kab₄-hil = 'hand pf Kauil/Kabil' probably = 'warrior (of Kabil' or simply 'man of battle'. Schaele/Fr. 1991 Munich p204

T.122 + T.181

$\begin{matrix} \text{y} & \text{e} & \text{n} & \text{z} \\ \text{here with her upper half} \end{math> The 8-rayed star 8 + 64 + 512 = 584 day-year see KUK, MTED $	The Star-Man among neighbors <small>see mak-hab MTED</small>
<small>M 25</small> <small>star of 9 before</small> <small>blessed, still</small> $9 + 81 + 729 = 819$ <small>see year-systems</small> <small>e-tin-hab MTED</small>	<small>Earth</small> <small>in celestial ballgame</small> <small>linked with Venus:</small> $8 \times 365 = 5 \times 584 = 2920$ <small>~2 Maya-leap-year cycles</small>

kab,

'The Earth'



The Old World with its Sav-
ia/Bab-ia 'Earth' has a cor-
rupt reflex in Old Egypt's
Earth-Sod 'k a b', from 'Sab-

MTED / Maya Transition Epigraphic Dictionary

Mayakab, 'The Earth'.a ball (= planet) between
Mars (= 9) and Venus (= .8)

5 The well-known Maya main-glyph kab, 'Earth', phonetically ka-b(a), is a realistic picture showing a rotating ball with a turbulent wake, the ball being chased by another, outer ball: planet Mars.

10 The picture refers to the Maya ballgame. The 'warfare' metaphor implied (already accepted by Mayanists) reveals that the ballgame is something more, so also in Aztec Mexico, it is the small-scale revival of a planetary drama which periodically recurs,

15 cryptographically expressed in the ballgame glyph -  compound recently discussed in MEXICON XII-1990

p105-108. Here the solution of the

20 cryptogram: The Earth, on its path around the Sun, is endangered, especially by her neighbours. Oftentimes I invited attention to the story of Mars mutilated in

25 the planetary war of Troy: His synodic year of 819 days was cut down to 780 days. As explained in MTED e-tin-hab, the Maya retained the Old Mars Period of 819 days

30 probably expecting recovery of Mars. For them, and the whole of humanity, Mars is '9' since $9 + 81 + 729 = 819$, that is: $9 +$ square + cube of 9 = 819.

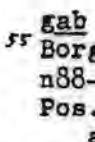
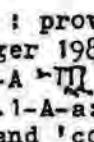
It seems likely that the kab,-Earth-glyph with its ball means the globe in the neighborhood of another celestial body. This is still more transparent with the ballgame-meaning attached-kab,-Earth-glyph completed by affixation of celestial references. The cryptogram's (9-kab,-8), see top of this page, true mean-

ing, via ballgame to warfare and dangerous celestial events, has been studied by Mary Ellen Retierrez, in the Magazine MEXICON 1990 p105-108, with bibliography. Ballgame was a mysterious holy ritual among Mayas and Aztecs. That the planets Mars and Venus are involved is beyond doubt. The relative glyphs are unmistakable. See

Sumer40 gab, 'The Earth'

in cosmology a cow = Iran. gav which term reached Greece, cf. Gaf-ia, later Gaia 'the Earth'. The cow-idea reached Nordic mythology: the primordial cow Audumbla, meaning 270 days, from winter solstice to Autumnus (21 of Sept.) = duration of cow's and human female's pregnancy: Earth, humanity's home, home of human females.

Audumbla/Autumnus, -l- from -n- as in Esel (ass) from asinus.

45 gab: provisionally assigned to Borger 1981, Ass.-Bab.Zeichenliste n88-A  KAB, Deimel ŠGr  Pos.1-A-a: Sum.Highl. gab 'Earth' and 'cow': 270 days of 360 days.

50 Maya, continued:

Similarly Venus: for the whole of humanity Venus was (presently forgotten) '8', since $8 + 64 + 512 = 584$, the Venus synodic year. That is again: $8 + \text{square} + \text{cube of } 8 = 584$, so still now, undisturbed.

55 The ballgame/star war cryptogram shows at left '9' = Mars; above Venus = '8' and the kab,-Earth-glyph, the whole an unspeakable formula. Cosmic catastrophism was always present in Maya mind. They had been the real realists on this globe, looking more at the stars than at anything else, see my remarks sub MTED mus 2.

top of this page. Mars in India is 9-rayed, Mars is Rose's City-God, calendrically integrated, cf. numdi-. On the whole, global ballgame, nimesha, golf, circuses, football, chariot-racings etc. are re-performances or anticipations of planetary wars, cosmic upheavals, violent warfare. Mythical traditions suffered corruption in meaning and wording.

However, it is astounding what Maya intellectuals (mostly scribes of royal descent) achieved in fixing into glyphs and glyph-compounds (in an undestructible manner) what they knew about the movements of the stars, often speaking in rebus, playing with the words of their enormously rich language, so that Western ethnologists are hopelessly overcharged.

MTED / Maya Transition Epigraphic Dictionary

MayaKabil 'Battle God'

Most prominent is God Kauil. I assume that 'Hand of Kauil' means warrior. The ways the Maya did write the name of this deity is also a sort of introduction in variant phonetic writing.

Here the case of kab₄-kab₄-kab₃-hil₁-l(a)
= 1)

in which kab₃ is a complement to make clear that kab₄-kab₄ (the smoke/flame-sign) should not be read itsi - 'fire'. The final -l(a) could mean that the hil₁-crescent-glyph needs here -l(a) because the glyph has also other values. Reduplicated kab₄ allows to see in one of the 2 kab₄ the meaning 'hand' so that the true meaning of the glyph composition would be 'Hand of Kauil' - 'warrior'. 1)

The composition, preceded by 'sky', is found in Dos Pilas Stairway of Hieroglyphs 2, East Side, Step 1, last composition of the upper row.

Cf comments in Schleifer/Freidel 1991 (Munich) p195; in MTED also discussed sub kab₃ (1) 'comblike hand'.

The fact that hil₁ has in Dos Pilas the complement -l(a) makes me think that hil₁ in those cases where it has a seemingly reduplicating subfix which looks like an inverted il - 'to see' confirms likewise a reading hil₁.

2)

God K according to Schleifer/Freidel 1991 (Munich) p197 b), C-5 with the smoke

glyph followed by the vertical bar - 'five' - ho from hau/hab/kab - 'hand' or '5 fingers' - 'five' - kab₆. This kab₆ is here a complement to make sure that the smoke sign be read kab-kab, or rather kab-kab₄ (phonetically), and not itsi - 'fire', or bu-itsi - 'steaming fire'.

The crescent-glyph hil₁ has the subfix -l(a) as complement to make sure that hil₁ is meant.

3) This kab₄-kab₄-hil₁ - 'hand of Kabil' - glyph compound has -yy as subfix. It makes it likely that in Old Maya God Kabil was pronounced Kabil^yu, cf. Akkad. qablu. The source is discussed in MEXICON XIII-1991, S.106 ff., Grube/Schleifer/Fahsen 'Odds and Ends', with the above 3) on p110, fig.6 b) B-2.

The listing below refers only to cases in which Kabil is phonetically written: kab-hil



Kabil
God Kauil
God K

kab-hil₃-l(a)

Sumer, Akkadqablu (= Akkad.) 'battle'

Borger, R. 1981, ABZ n8 SEN 'axe' (SU x A)
Pos.4-a: Sum.Highl. Šen-Šen 'battle' lit. axe-axe
Pos.4-a': Sum.Lowl. *gin_o cf. NoFo Highl. axšina-Lowlf. *kšina- whence Greek axine 'axe'

Pos.4-b: Akkad., qablu - 'battle' and 'middle'
n337 MURU (ITI-gunū)
(the graph has ES or ITUD = Aryan atri or indus 'moon' inserted = 3 x 10 = 30).
Pos.1-a: Sum.Lowl. murubā₄ = 1-a': Highl. garibhā₄ 'middle' and 'battle'
Pos.1-b: Akkad. qablu 'id.'

n532 ME 'tongue'
Pos.46-a: Sum. Highl./Lowl. me 'battle', - *maya/mada/madha-, NW-Iran. maza- (cf. Amazon), Greek makhe 'id.', makhētēs 'fighter'.
Pos.46-b: Akkad. qablu 'id.'

Maya, continued:
The -i- in Kabil is a glide breaking the cluster -bl-.



4)
Likewise Schleifer/Freidel 1991 (Munich) this time p204, allegedly God K, in Karanjo, Stela 24, topos D-11.
Drawing very simplified.

Since the Maya (as usual in all civilizations) often fall victims to pseudo-etymologies, it cannot be excluded that God Kabil, as being written with the crescent-glyph, may have been associated with the Moon, or with the powers of the crescent.
5)
Kauil according to 'Odds and Ends' (see 3) p107: Quirigua Stela 1, South Side, Fig.2, Topos C-5; followed by a name-sign and a dedication?
Also here: most probably:

'Hand of Kauil' - 'warrior'.

	Kam to die	See footnotes	<u>kam</u> ₁
	Kam-sa ₄ to kill	'to die' and 'to make die' = See footnote	<u>kam-sa</u> ₄ to kill

MTED / Maya Transition Epigraphic Dictionary

Mayakam, 'to die'kam-sa, 'make die' = to kill

Quiche, Teco and other Maya languages have the archaic kam- 'to die', and e.g. Teco kam-sah 'kill'. The -sah as a causative is also found in other verbs, as is Sumer. -še from -i-ša. Proper Maya would be kam-i-še with -i- as a glide.

It is remarkable that the Sumerian spelling (gam, not Lowland gum/ kum) has found its way to Maya. This may reveal that Maya nobility who certainly preferred Sumerian Highland speech which is closer to Old Persian (ruling at 500 aC), imposed the Highland-type terms in connection with pompous funerals.

The main characteristic of the kam-glyph is the lowered lid of the eye = sleeping, cf. German 'entschlafen' = 'deceased'.

Just 'sleeping' could imply belief in resurrection.

A mark on the head-glyph's cheek indicates causativeness since it is recurring on the kab-kab, 'fire/kindle' glyph q.v. line 69, and in other glyph structurings. This strange sign alone, as a main-glyph, can replace the closed-eye-glyph, as it seems. Quiche has ras-kamik 'sudden death' (Gates 1931 p27)

which kamik recurs in the Madrid Codex written kam(i)-k(a) (Gates p55: M.124.b.2, M.168.b.3)

hu kam-i-k(a)
'his death'

hu is the Iranian (>Arab.) form of previous Aryan su, Lat. su-us, -a, -um.

u kam-
k(a)

Sumer
ku₉-ka₉-lahum-kam-sa₄ - see footnote
400-fold killing

gam x 'to die'
gam-i-za 'make die' = to kill

Borger, R. 1981, Ass.-Bab. Zeichenliste n362 GAM

Pos.6-a: Sum.Highl. gam 'to die'

Pos.6-a': Sum.Lowl. gum₄ 'to die'

n192 GAZ - KUM x 5E

Pos.2-a: Sum.Lowld. kum-še 'to kill'

Pos.2-a': Sum.Highl. gaz 'to kill'

This latter Highl. form is properly gam-ž. Here it is seen that

Sum. had archaic forms and lexical constructions still more archaic than the IE (Indo-European) Basic Language so far reconstructed has. First:

gam (Sum.) 'to die' stems obviously from the IE root gʷem, gʷem/gʷom = 'come/go' in the sense 'go away' = 'to die'. Second: 'to make go away' = 'to kill' would be IE gʷem-y-, but it was corrupted to sound gʷen-y- and means (like Sum. gaz) 'to beat, to kill' (think of German 'erschlagen' = 'to kill'). Since all IE/Aryan -y- become -ž- in proto-Sum., after an inserted glide -i- (procedure often recurring in Sanskrit), Sum. gam-i-ža (= Highld.) reflects the normal development. And so does Lowld. kum-še, from gum-e-še/gum-i-ža.

The above was made clear to the Maya at about 500 aC and they kept the lesson in mind for more than 2000 years.

Maya, continued:

The infix sign for the causative -sa₄ was probably .

Here the sequence: The closed eye means death/dying = kam (Sum. gam 'to die')
The portrait's mouth-line refers to the lower jaw = labum = 'ten'.
One tooth (-ka₉) in rebun means 'two', 2 x 10 = 20. The second tooth means the second power of 20, that is 400. Thus we obtain '400-fold'.
The strange mark on the cheek seems to be one of the various causative signs, probably -sa₄, rendering kam- 'to die' into kam-sa₄ = 'make die/ to kill'. For parallel denotations see MTED terms beginning with ku₉-ka₉ 'tooth-tooth'.

Footnote
see MTED hu-
'his, her, its'
with hu-ha- 'their'

18.03.1998! Addendum:
Till now the head-glyph's mouth-section remained unexplained. As in similar renderings, I propose now to see here a superlativistic attribute, literally: 400-fold recurring.

MTED / Maya Transition Epigraphic Dictionary

Maya

katum-m(u), 'hand', REBUS: 'end'

Formation of an abstract It is understandable that glyphs with various meanings and various readings are reluctantly explored and accepted. Here the case of the abstract term 'end'. In Maya hieroglyphics, a flat hand pointing to the right side is generally accepted to mean 'end'. But why was the hand-picture selected to mean 'end'? In Akkadian, qatum means 'hand' (n354), and qatum means 'to finish, to end' (n69). The makers of the Maya script, not keeping apart the 2 notions in writing, used the homonymy, painted the hand seen as stated above, and made rebus-use of the picture.

In Akkadian, the 2 terms have no common etymology. The homophony is incidental, but to the Maya that seemed a good basis for a rather cryptographic rebus writing. Once established and fixed, the 'end'-picture could attract any term of whatever time and language by which the notion 'end' is expressed. By retaining half-phonetic katum-m(u) in writing, they replaced katum, while reading and speaking, by other terms. By which ones?

The substitutes could stem from 'tail', of. e.g. 'head of a period' = 'beginning'; 'tail of a period' = 'end'. This situation justifies modern paraphrasing, i.e. translation from glyphs, not from known

See MTED hil, 'crescent, which does not mean '20' or 'moon/month'. But with the value o- prefixed (which seemingly replaces u 'moon') it actually means 'moon'. The background is a very interesting story: Maya uhil 'moon' is found in Chol (see Otto Stoll 1958 p79 - n142). If split, - u-hil, it offers also the u-Moon-word. Pan-Mayan, indeed, the phonetic u-glyph is a waning moon so that u-hil ingeniously describes two moon main characteristics. The Chol u-hil is

The flat-hand-glyph means kab, 'hand' and in rebus ka-b, '2'

another value is katum-m(u) 'hand' + 'end' perhaps later also sib, 'tail, end'

katum-m(u) (1)



Sumer, Akkad subfixed -mu is a complement confirming katum-reading

40 Akkad. qatum 'hand, end' Borger, Rykle, 1981, ABZ Besides MTED n354 SU, KAT, QAT 'moon/month' Pos.4-b: Akkad. qatū(m) Chol has u-hil = 'hand', no Sem. cognates; seems to stem from Aryan gatam Yucat, yu-il 45 tes; a loan from a Kentum language? Note Pos.4-a: Sum. šu 'hand' and the homophonous šu, 'sink' = 'month' with the rebus-use as in MTED šu, -min, 'sinking Sun, W. = 'waning-' + crescent. = 'West'

n69 ← BAD, TIL, SUN, QIT Pos.20-b: Akkad. qatū(m) 'end' No Semit. cognates; seems to stem from Aryan gatam 55 'gones', like Sem. q-d-m = 'old, antique, formerly'.

Maya, continued : lexemes. But the scholar will enjoy a realistic approach to Old Maya in general. The notion 'end' is in Quiché II kisbare, from *kih-sibal-, and in Cakchiquel II tsisibal.

The common Old Maya preform is *kin-sib-al 'tail of a period' Does sib mean tail? Sub hun, 'son' the almost Pan-Mayan 'tail'-word has been ascertained to be he from ne, put to use in y.u-n(e) 'son (of nobility)'. But we have Akkad. zibba-tu 'tail' (n77 Pos.2); kun/zibba-tu and n395 Pos.2: ZIB 'tail'-constellation, Gössm. n175; CAD Z 102). Since kun (Sum.: 'tail') appears in Maya (as kuh-) meaning 'end', the situation seems clear.

confirmed in Yucatecan y.u-il 'month' (yuil, as in 1628-pC-Zuyus, MEXICON 1990 p89). Now, a most important confirmation comes from Palenque, TFC B-10: The compound is read by Schele/ le/Freidel 1991 (Munich) p280 line 4) as '15 months have ended', in paraphrasing. Written is HO (5) o-hil katum. The o--phonetic element is in the Syllabary Harris/Stearns 1992 p45 (- Linda Schele 1991). The hil and katum ('end') are my contributions. Schele's o-has 2, Palenque has 3 circles.

The phrase '15 months have ended' as written in Palenque

TFC B-10 : Kab

The bar, HO '15'

Phonet. o

The crescent

- hil, q.v.

The hand/katum

- 'end, ended'



HO o-hil

Katum

The standard compound meaning 'end' - katum-m(u)-ni

/ For -hil see also Kabil / Kauil / God K.



MTED / Maya Transition Epigraphic Dictionary

Maya

Some scribes altered the flat-hand-glyph to look like a grasping hand (= šu 'to sink' MTED, as in šu-kin / tši-kin 'sinking sun, West').

'Sinking = ending' is not bad, but the subfixed mu keeps katum-m(u)



in function, and in accordance with the context. This happened two times in Piedras Negras, 63, stela 3, F-4, where it says: 'End of

the n⁵ TUN' - katum-m(u) uⁿ hou
muš₂ (- TUN) ; or Linda Schele's homí u ho TUN. The next occurrence is in F-9/F-10 where it says: 'End of n¹⁴ KA-TUN' = katum-m(u) uⁿ
kan-lahum ka-muš₂-hab
 (where muš₂ means 'jaw'
 = 10, and ka- = 2),
 or Schele's homí u chanluhum KATUN.

Another flat-hand instance is seen in Palenque, Slave Plate, M-5, stating: 'end of 3 KATUNS'

- katum 8 *os ka-muš₂-hab.

In the UCB Library, sub 722 S 733, I found the volume León Fernández

1892 Lenguas Indigenas de Centro America en el Siglo XVIII (San José de Costa Rica) with, p12, Quiché II kisbare 'fin'; Cakchiquel, p42, teisibal 'fin'. The preform is *kin-sib-al - 'time's tail', in agreement with zibba-tu 'tail' in Akkadian mentioned above, p(1) with more detail, in the context with the Sumer. zibba-tu counterpart kun 'tail' also found in Maya meaning 'tail/end' and even 'penis': Fernandez, p29, Pocomam k'uh-linak'chi 'fin/end', and p12 Pocomchi koh-labal 'id.'. The usual -h- for previous -n- confirms kun 'tail', final -chi is -kin.

As to Maya ne '(tiger's) tail' (later he in some Neo-Maya dialects), also in phonetic use, see MTED sub HUN, / y.u-n(s) 'son (of prince)', with reference to Sumer. ne 'to end'.

Sumer

See preceding page (1)

Maya, continued :

A Maya tsuk/tsuka 'to end' is confirmed in the Book of Chilam Balam of Tizimin in the context of the End of the World: Tz'ocobal u than 'the ending of the word' (see Michael Coe 1992 p276). Maya *tahan 'word' = Persian dahán 'mouth'.

For tsoko/tsuka posit Old Maya tuka which could be a syllabic metathesis of katu- 'end' on these pages discussed. Strangely enough, Harris 1993 p1, (1) - (14), submits a list of TZUK-verbal phrases in which tzuk is denoted by the horizontal flat hand same as in the katum-m(u) -case. Among the meanings there is 'to close (a band); to close (a period); to end'.

Most instances submitted by Harris 1993 refer to hu-na 'headband'.

So in his Pos.(6) U Tzuk Hun(al) 'he closed the headband', in Older Maya *hu, hu₂-n(a) *tuka/katu

But an additional meaning or rather homonymous term is seemingly rendered by *tuk: Sumer. n574

Harris (2) Pos.2-a: tuku, tuk 'to get - to be allocated'
 IE/Indo-European dhugh-
 Greek tunkanei or
 better e-tukhe 'he happened to become': Cf. Harris (2)
 ... tuka-wa-ni (his: "Tzukwani")
 in 'It was presented (the God K mirror)'. -wa- is subfixed, -ni is postfixed.

It is clear that Harris likewise failed to read the crescent glyph properly as hil. To the finger-

Harris (3) glyph HUN, (this time

referring to headband) he added, according to Schele and Grube, ah instead. The improved headband term is HUN-hil = HUN-il which would stem,

lifting vocalic metathesis, from *hinul, Old Iran. hnur, cf. German Schnur, e-grade IE sneur-, later Latin *(s)nervus 'nerv'. Avestan has snavar 'band, sinew, etc.'



katum-m(u) (3)

KATU > TUCA > TZUK

a flat hand glyph



MTED / Maya Transition Epigraphic Dictionary

Maya

HUN-il, HUN-hil '*band, headband'

Sequel to MTED katum-m(u) (1) (katu 'hand', in REBUS: katu 'end')

5 Harris 1993 p1 (1) - (14) submits a list of TZUK-verbal phrases, with TZUK = 'flat hand'. My proposal is TZUK from *tuka, a syllabic inversion of *katu = 'hand' and 'end', a loan from Akkadian. The verb TZUK's object is Maya HUN-n(a). confirmed by hu₂-n(a), = 'headband', (6).

But the full spelling of 'headband' is HUN-hil and HUN-il.

This is proved by the composition (3) with the crescent glyph hil, or, by an alternative, (8) with li₂ = il₂ as MUM₅-hil tuk 'headband close, a headglyph, see compound (4)

20 Mayanists read present- ly the crescent glyph as ah; sub MTED hil the better hil-reading is exemplified.

25 The hil substitute in Maya inscriptions where hil functions phonetically for rendering nominal or verbal suffixes is normally il (to see), written by means of li₁.

30 In Harris' compound (8) (see above) we find, subfixed, *il₂, = li₂.

The elements of composition (3) (see above) are: 1st: a finger (- HUN₃; could also mean 'one') on top of the long-nose-head; 2nd: the hil-crescent glyph; 3rd: the TZUK-flat-hand glyph.

TZUK = 'end'

It is confirmed in the Book of Chilam Balam of Tizimin, in respect of the End of the World:

Tzocabal u than = 'the ending of the word' (see Michael Coe 1992 p276).

Maya "tahán 'word'
Pers. dahán 'mouth'

The elements of composition

(8) are: 1st: u₅ 'he' pre- fixed; 2nd: a variant to HUN₅ 'headband' without affix; 3rd: the TZUK-flat-hand glyph; 4th: the sub- fixed il₂ thus providing for full rendering of HUN₅-il₂ 'headband.'

Mesopotamia, Iran

*hinur < *hnur-/hnaur-

Greek (h)neuron, Lat. (s)nervus etc. 'band, sinew, cord, fiber'

Possibly in Babylonian Cuneiform: n396-C HI ETTT Pos. 3-A-a: Sum. *hi₁-nur₁ 'band', ₁nur₁ = n325 NIR with metathesis of vowels: *hunir thus regularly Maya HUN-il/-hil.

(1) Tzuk: To present

or rather: to present, to put on, to close (a band), to clo- se (a period), to end: TZUK < *TUCA or KATU-mu, flat hand see MTED katum-m(u) (1).

(2) Tzukwani: It was presented (the

55 God K mirror)
(*it was?) hand-given-in
('bil 2) KATU-wa-ni
-hil belongs (?) to hab-hil God K

(3) Tzuk Hun (tzuk-sak-hun-na): He closed the white headband

56 (4) Tzuk Sak Hun (tzuk-sak-hun-na): SAK HUN₅(a) - il₂ on top of head + TZUK TUCA / KATU-m(u)
(in full: hunil/hinul '(head)band'

(5) Tzuk Hun Tubah: The headband was closed for him

Ligature: "tso-ma 'band'
+ TZUK TUCA / KATU-m(u)
Mesop. 'suma/dūma'-
Iran. dāman- 'band'.

(6) U Tzuk Hun (al) (u-tzuk-hu-na): He closed (put on) the headband

75 "hu₁-hu₂-n(a) TZUK/TUCA/KATU-
'he headband closed'

The main-motif in the above compounds is 'closing of the headband. Harris' choice is very hazardous. Rare phonetic values have been employed to support the motif. Future research may lead to other readings in some cases. Up to six different HUN-writings make the results questionable. The first HUN = 'son' is phonetically written "hu-ne (see MTED HUN₁). HUN₂ as number 1 is a circlet; HUN₃ as n1 and as son of the hand is the picture of a finger; HUN₄ is the picture of a head-band; HUN₅ is a long-nosed head-glyph; other HUN-writings are phonetic, using various hu-glyphs (e.g. the upended frog as in compound (6) above. The study on this page is not impressive.

KATUN₁/2/3MTED / Maya Transition Epigraphic Dictionary
Maya

Piedras Negras, 63 Stela 3, A-9, and recurring, (cf. Coe 1991 p266-267) brings part of the story of a princess. Of interest is here her name-glyph depicted as a woman's head-glyph carrying an unexplained IL-mark on the cheek. At the right side is an archaic KATUN₁-glyph, superfixed is PO-BEN (said to mean AHAU/AHAB). KATUN₁, upper part, symmetric $\frac{1}{2}$ ka, then TUN/mus₂ and then, mirrored $\frac{1}{2}$ ka. In the TUN-glyph the $\frac{1}{2}$ 6 circlets are missing. The lower part is the hab-glyph.

It seems that the TUN-glyph does here not mean TUN, and not mus₂, 'rain'; it may mean mus₁₃ - Lowland Sumerian 'jaw' (- 10) contrasting with Highld. mas 'jaw'. It follows that ka-mus₂ is here seemingly 2x10 = 20, and the hab-glyph of the lower part of KATUN₁ completes the message: ka-mus₂-hab = '20 years', one KATUN.

ka and the mirrored ka may mean '2 which it is', Sum. -ka -ka ast (= New Persian), or it is due to symmetric beauty, or it replaces the missing plural-b of ka.b 'two'.

Maya hab means, properly defined, any type of year, 260, 360, 364, 365-day-year. See MTED tin-hab, mak-hab, muk-hab, uai-hab. See also MTED ka-mus₂ = '20'.

There is no reason to 'translate' PO-BEN by AHAU/AHAB since PO is seemingly Sum. PA, known as short of PATESI = 'governor'; and BEN is Semitic 'offspring'. I propose to translate PO-BEN by 'prince/princess'. For PO see also MTED ba₁-kab₂ 'minister'. Another governor-word is studied sub MTED nis-ok.

KATUN₂ shows the head-glyph with a lower jaw bone = '10' and elements meaning '2' and 'year'.

KATUN₂ shows the head-glyph in which the jaw (- '10') is covered by kab₁ 'flat hand', meaning here in rebus ka.b '2'. See MTED -b 'plural'. That makes, e.g. ka.b-lahum shab = '2 x 10 years' - one KATUN (consists of 360-day years).

The a.m. six circlets in mus₂ is $\frac{1}{2}$ 6 (also written 5 + 1 $\frac{1}{2}$) Babylonian sexagesimal six = 6 x 60 = 360 days, = one TUN.

LADY PRINCESS KATUN₁

Sumer *inān "po-ban ka-mus₂-hab



SAGS n103 INANNA
Pos.2-a: Sum. dInnin, Ennin
Inanna, Nin, Ninni
'Venus', seemingly generalized like Ishtar 'Venus' in Akkad.
to mean also 'lady', maybe a corruption via *Ennin/Anaina/Anahita from Anna-asita 'Mother of the S'
cf. OPers. Anahita (H.S.Nyberg II,
1974 p18 - Pahlavi: Planet Venus).
A proposal for Maya: *inān 'lady'.

SAGS n295 PA *staff KATUN₁
Pos.9-a/b: Sum./Akkad. acronym of
PA-TE-SI 'town ruler, governor'

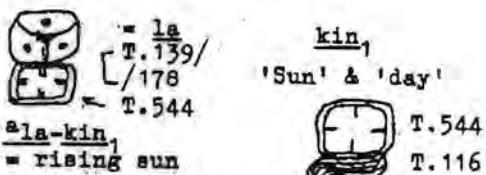
SAGS n229 ABNU/*BEN KATUN₁
Pos.3-B-b: Semit. ben 'son'
and ben-t 'daughter'

SAGS n74 MAS / BAR KATUN₁
Pos.86-a: Sum.Highl. maš-maš 'jaws'
Pos.56-a: Sum.Lowl. muš₁₃ 'jaw';
from Aryan *maks-, cf. Lat. maxilla;
the meaning '10' did seemingly exist and entered Turkic as seen in alt-miš '60', yed-miš '70'.
Graph n74 is a cross + MAS, also in the Indus script + 'ten', ≠ '20' etc.; and so in Chinese + '10'.

SAGS n483 HAB / LAGAB O KATUN₁
Pos.23-a: Sum.Highl. hab 'muddy, rainy (season) = *year'; Iranian hav- '*inseminate', as Sum. hab entered Semitic, artificially triliteralized habb, with hibb 'seed' habb 'make love', ma-hibb 'darling' cf. habib-ullah = German Gottlieb.
Maya shab/shau is understood to mean 'inseminator', i.e. 'ruler'. The above Maya PO-BEN 'prince, princess' is obviously not shab 'a male inseminator' although the spouse of a ruler may in case of the ruler's death succeed on the throne in the interest of minor children, as regent.

Maya, continued :

The term KATUN is probably pseudo-Maya though Grube sticks to the 'etymology' of *kal-tan = '20 TUN-years of 360 days'. In glyptic writing TUN is called (see MTED) tin-hab II = 'small year' as compared with (see MTED) mak-hab 'big year' (of 365 days); note also (MTED) e-tin-hab 'somewhat small year' - the vague year of 4 x 91 = 364 days.



MTED / Maya Transition Epigraphic Dictionary

Maya

kin, 'Sun' and 'day'

It is certain that in the language of the Maya inscriptions and codices the word kin means 'Sun' and 'day'; a variant kib survived in modern dialects. A proto-form kin (following Terrence Kaufmann) can be excluded since Maya n usually equals Sumer. n, here Sum. gin, 'bright'. Synonyms of 'Sun' are Subintha-Maya kaku,
Cakchiquel saké, and Tzotzil kakal.

The Maya Sun-glyph looks like a wheel. It cannot be excluded that the use of wheels in the Americas was tabooed to avoid offending the celestial wheel. But the Tzotzil kakal 'Sun' sounds like paleo-Lowland Sumer. kakira- (Sanskrit and Aryan cakra = tákra, Iran. čaxra- = tékhra-, New Pers. téaxr (x = Swiss & Germ. ch, the fricative of k). Said
Lowland kakira- became Lowld.Sumer. gigir 'wheel, car, wagon'.

Whoever doesn't want to believe that, may think of Modern Maya kak 'fire'.

The famous compound-glyphs la-kin -
²⁵ 'East' and chi-kin, 'West' have been important for discovering phoneticism in the Maya-script. It is noteworthy that Sumer. gin,-tur '#brightness-young' means 'East' (Déimel, SL 366,17).

³⁰ The Maya la-kin, 'East' tells us the same thing. The la-glyph (- upside down Ahab) is sometimes also used to phonetically render ala. It appears in connection with al 'child, growing, young' which al is also found in Su-

³⁵ 'mer meaning 'fruit, product, planting'. Atlantic towards Maya land.

Sumer 366 ²⁴ KUR = Pos. 36 :gin, 'bright, splendid, clean'
(cf Turkish gün 'Sun' and 'day')

Borger, Rykle 1981 (& SAGS 1982)
n366 ^{AA} KUR B-kura- 'immovable'
- 'mountain' (same in Skt. acala,
Pos. 36-a: Sumer. gin, gen 'bright')
This is from proto-Lowl. kaina-

ⁿ⁸ ^{AA} MEN (SU x A) skin for water
Pos. 12-a: Sumer. jen 'bright'

This is from proto-Highl. xaina-

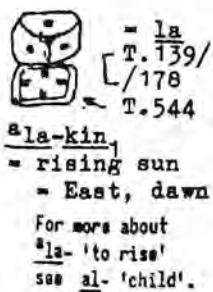
The above gin, 'bright' is in SL 366,
and (same root) jen 'id.' in SL 8,4.
Same root, but not same graph.

Iranicity of Sumerian is beyond doubt:
Roland G. Kent, Emeritus of IE linguistics. 1953² (New Haven, Connecticut)
OLD PERSIAN, Grammar, Texts, Lexicon,
p165-b: discusses OPers. a-xaina-
'not-bright' = Avest. a-xaena- 'id.',
as a loan in Greek Pontos axeinos 'the
Black Sea'. See also Bartholomae p541.

Similar same-root doublet appears in
Sumer. gin, 'axe' (= Maya kin 'id.')
and Sum. jen 'axe' (= Maya jen ?)
both stemming from Aryan a-ksina- =
'indestructible' because of its material, confirmed by Akkad. hassinnu 'axe'
properly *ahsinu, a loan from Iran.
(gin = n595 Pos.2-a'; jen 'axe' = n8 Pos.

From the above it appears that a Sumer. gin, 'bright' spread as meaning 'Sun,
day' from Sumer, at 500 AC, towards
Central Asia (Turkish) and across the
Atlantic towards Maya land.

Something as a parallel in Maya of what happened in Sumer relative to same-root gin/jen see Maya-Pocoman etc. kinák 'frijoles'
kinák 'paint-bean' and May. šenk - 'id.' (Stoll, O. 1958 p242 (nr87)).



For Neo-Mayan kak 'fire' (*koko, kau-kau) see kab-kab
Mesopot. kab 'burn' which entered Arab.
as kabb whence kabab 'grilled meat'
The root is Iran. "kav-", IE (- Indo-Europ.) kaw-, cf. Greek kaF-y-ō 'burn'
and holo-kau-s-t-,

Note also Semit. kab-kab 'start' - 'little fires'.
See Maya al 'child'. Haya chi-kin 'West'
with či from šu, is a cognate of Sum. šu, 'sunset'. Maya či is written by means of a grasping hand' - an ad-

ditional support, hand - Sum. šu, showing that we are on the right track.

MTED / Maya Transition Epigraphic Dictionary

Maya

ku₂-tin, 'vulture'
later ku₂-tāi, 'vulture'

The Codices (Dresden, Madrid) are in part bilingual reference-books ...

- 5 Knorozov compared the picture and its legend plus Neo-Mayan counter-parts. For 'vulture' he thus found the phonetic rendering ku-tāi - Neo-Mayan kuts'. He disregarded the older tin, (I) glyph  placed on the bird's back. This tin is almost synonymous being perfect Sumerian, see MTED tin, (I) 'falcon, bird of prey' in Maya-land and Sumer.

Cf. also the case of su-tin, 'bat/Fledermaus' in respect of the recurrence of tin. As to the Sum. variant ti 'eagle' (see MTED ti-hu, 'eagle' (with hu = 'bird' as suffixed determinative in both, Maya and Sum.). Sum. su-tin 'bat'.

- 10 Next the case of Maya mo-o-o 'macaw-bird'. In other instances (see MTED mak-hab, 'the maoaw-365-day year') the head of the bird denotes Old Maya makab which in rebus is mak-hab, 'big year'. Neo-Mayan mo-o-o is obviously corrupted *ma-'au-hu/makab-hu 'macaw-bird'.

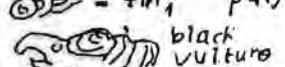
- In the case of Neo-Mayan kuk 'quetzal' things are as in the case of Macaw. Phonetic ku-ku is the legend of the Quetzal on top of a deity of which the depicted head means 'planet Venus' and 584 (-Synodic Year of Venus, 8 + 64 + 512 = 584 days, 8 being the holy number and the cube root): Old Maya hu-kuk, - Sum. u-gug, 'Venus' and '*bird-gay-colored'; see MTED KUK (1), (2), (3).

- The case of Neo-Mayan tsul 'dog', phonet. tsu₁-lu₁, see MTED tun₂-lu₁ = 'dog which destroys'.



the whole spectrum that emanated from the best Sumerian forms when trying to determine the reading of a number of bird names.

ku₂-tin,
'vulture'
later ku₂-tāi, 1) p41

Ku-chi
chi
- - - - - tāi, p41

black vulture
Kelley 1962 p23 ?

Sumer, Akkad

*ku₂-tin 'devouring bird of prey, *vulture'

- 4c Borger, R. 1981, ABZ n36  GU (KA x NIG₂) Pos. 1-a: 7 Sum. kú, gu 'to eat, devour' Pos. 1-a': Sum. Highl.  Iran. *gah-, Sanskrit ghas- 'to eat'.

n465  DIN / TIN, TEN, Pos. 18-a: Sum. High/Low!

- 50 tin, better: ten 'falcon, bird of prey' SW-Iran./OPers. gaina- Sanskrit syena- 'id.' I For more see MTED tin.

For the other Sum. cognates see mak-hab; KUK (1) (2)

Like Sumer/Maya mu-tin, mu-ti 13.02.1998: and aud changed meaning from 'falcon' to 'bird', so Sum./Maya ku-tin, via ku-tāi 'vulture' ku ended in. Turkish kū  - 'bird'. Such developments comprised even chicken/egg. Cf. Coe 1992 p750 Madrid 40a

via bird in general till chicken. The same happened with MTED tin 'falcon', and its fuller form mu-tin, same fluctuating range of meanings. But etymologically versed scribes tried to re-introduce the older forms, see in the above kuch-picture the correct archaic name tin  inscribed on the back of the vulture. But no firm standards had been adhered to in the course of millennia. We are bound to have in mind

the best Sumerian forms when trying to determine the reading of a number of bird names.

MTED / Maya Transition Epigraphic Dictionary

MayaKUK, ku₁-k(u), *u-kun'The Quetzal-bird + Planet Venus'

According to Schele/Freidel 1991 (Mu-nich) p173 the Palenque Trias consists of Venus, Jupiter, Saturn; on p571 the naguals of the Trias are said to be Jupiter, Saturn and Mars. Then, p281 (Palenque TFC, at 697 pC) the Trias (GI, GII, GIII), and their divine companions, entered a conjunction. On p117, two head-glyphs are named GI = Venus, and two others are named GIII = Sun, all referred to as 'divinitiess of the Trias of Palenque'.

In the Dresden Codex, Venus pages, the abstract sign, in full, of Venus, is the well-known 'cross' with 4 corner circles. Its upper half is, following Kelley 1977-b, merely 'star'.

According to the Toniná Calendar Monument 101 (see attached page KUK (2) or see full context sub mak-hab - pages I-V) the head of the Quetzal bird means Venus and Synodic Venus Year = 584 days. The Quetzal is called ku₁-k(u), = KUK in Maya-land. The Quetzal-KUK-head-glyph is seen in Palenque TC Q-4; TFC M-7; TS 0-9; but Schele/Freidel, 1.c.p279, 281, 283 read it simply kuk, not 'Venus'. In TS 0-9 kuk is preceded by chi-kin 'West', i.e., = 'Evening Star'.

It is well-known that the first appearance of Venus as Evening Star was by the Maya believed to be propitious for war or blood shedding. That is why *gu₁-kin-KUK (Western Venus)

No sense makes (Harris/Stearns 1992 p70) k'in-ni-ich-ku₁-na K'inich-K'uk'-Na = Mahk'inah K'uk' House. The holy number of planet Venus (8) is the cube-root of the synodic Venus year (of 584 days) resulting from 8 + 64 + 512 = 584 days; In Sumer, 8 written 5,3, was in one document erroneously read 5 x 3 = 15. The Maya write it 3.5 = 8. See 'PAO/Anthropocentric Planetary System.'

Sumer, AkkadSum. u-gūn + u-gug₄

T.744

'Venus' = 'nice gay-colored'

Note that both terms discussed here, the one relative to the bird, and the other relative to planet Venus, do stem etymologically from Sumerian obviously as spoken in Babylon at 500 BC, because of gug from older (Iranian) gun cf. New Pers. gun-a-gun

Borger, R. 1981, ABZ = Assyr.-Babyl. Zeichenl. n114 DAR and GÜN = GUN, Pos.2-a, 3-a: Sum. gūn = 'gay-colored/bunt'

n66- NÚMUN (ZI-LAGAB)

Pos.4-a: Sum. gug₄ 'bunt'

n78 HU 'bird'; 'well'

n411 < U (with loss of h-

same meanings as n78)

n418 < U-DAR / U-GUN

Pos.1-a: Sum. u-gūn 'Venus'

and Planet Venus, Gössmann

55 = 'well-gay-colored' n134

Pos.1-b: Akkad. diStar 'id.'

via 'ka-istal/keatal/ketsal

rendering Azt. Quetzal?

Note -g from -n = n66-C, very gay co-

thus producing Maya gug/kuk 'loured',

----- both, bird

and Venus.

is often endorsed by blood-

or killing-glyphs. They either

follow or are inserted in the

eye. Don't read mo (Schele/Freidel do read mo); betteris a₂-kik 'blood'.The relative phrase chi-kinyaš KUK-a₂-kik means thus:

70 (In the) West, first (appear-

ance of) Venus (means) blood-

time; this phrase has been

made a Personal Name (Schele/

Freidel 1991 p396; their kin-ich instead of chi-kin makes

no sense).

Below (according

to Harris/Stearns

1992 p70) the gra-

-ping hand (Sum. ku

'hand') meaning 'to

sink' (Sum. du) andthe kin-n(i)-Sign =

'sun' = 'West, eve-

ning' and the bird-

Quetzal-head-glyph.

'Western Quetzal' =

'Western Venus Star

or Evening Star',

seems also to mean

'terrible Quetzal =

'awful Venus, war'.

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MTED / Maya Transition Epigraphic Dictionary

MayaMacaw/mak-hab- and the Leap Years
on the Calendar Monument 101, Toniná

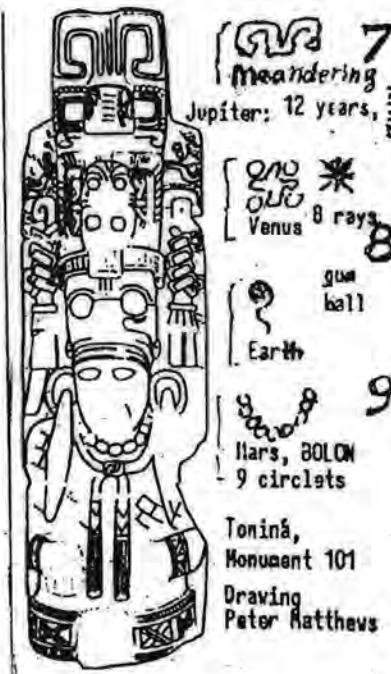
- 5 Michael D. Coe's allegedly 'Maya-Code-breaking Knorozov-inspired Consonant-Vowel-Syllabary' is of no use for reading the Toniná Calendar Monument 101. Said Syllabary has just the value of some initial stimuli to Linda Schele's Teams of Young Turks manipulated
- 10 to never thinking of diffusionism. There is no Code for the Maya Script. The Young Turks will soon realize that.
- Back home from Marina Kemer (Southern Turkey) on Saturday 5th of June 1993, I had again full access to my stock of Maya documentation. Last night I had a glance at
- 15 p457 of Schele/Freidel 1991 (Munich) and noted a Macaw bird head on Monument 101, Toniná; preceded by the vertical row of four dots - '4', like in Dresden, see p. I of this mak-hab-series. Over the Macaw Head there is the Quetzal Bird Head, preceded by two vertical bars -
- 20 '10'. The Quetzal Bird, and God Quetzal-Coatl of the Aztecs is (see Encyclopedia Britannica sub Quetzal) to the Nations of Mesoamerica - Planet Venus, both, Morning and Evening Star. It follows that the synodic year of Venus (584 days) multiplied with 10 means
- 25 here the 5840 day period which equals 16 hab-years of

The non-phoenetic Quetzal head glyph has in the lower jaw region '4 fingers' seemingly marking the 4 Venus-year subperiods, and, postfixed, 3 half-circles, probably referring to the adding of square and cube:
 $8 + 64 + 512 = 584$ days, i.e.

$$8 + 8^2 + 8^3 = 584 \text{ days.}$$

Such sequence applies also to the Jupiter synodic year:
 $7 + 49 + 343 = 399$ days;
Likewise to the Mercury year:
 $4,5 + 20,25 + 91,125 = 115,875$
& the precatastrophic Mars:
 $9 + 81 + 729 = 819$ in Palenque.
Thus the Basic or 'Holy' numbers of the planets are: 7 -
Jupiter; 8 - Venus; 9 - Mars
+ God K, Kauil, BOLOW.

Bird Macaw Year =
365 days and
Bird Quetzal Year =
584 days within the -
5840 day period plus
4 Intercalary Days
- Monument 101 in
Toniná

Sumer

See my APAO = Anthropocentric Planetary-system of the Ancient Orient (in German), or some extracts in Dr. Heinke Sudhoff (presently FRG-Embassy at Paris)

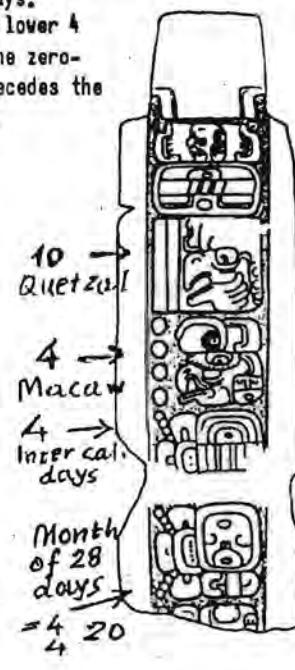
'Sorry, Kolumbus' (1990 Gustav Lübbe, Bergisch Gladbach) pp302, 169, 185, 263, 273-274, 276, 186-187, 1-1-133, 20-21, 296-297.

Maya, continued :

365 days. As superfix to the Macaw head is a glyph which obviously means 'square-power = 2'. Potenz). The square of 4 is 16. The Solar Year, improved, requires here 4 intercalary days which indeed appear in the compound below the Macaw Head as 4 circlets infixes in the mi-zero-glyph, prefixed to a '4-bow/day-glyph'. After a gap follows a minus-month of 28 days contrasting with a (lost: i.e. broken away) plus-month of 29 days.

40 45 Note the upper and lower 4 days inserted in the zero-mi-glyph which precedes the kal-20-days glyph.

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For mu.k-ku - 'Quetzal'
see MTED muk, 'plenty', line 55.
- see e.g. Kelley 1992 p151 or David Kelley 1962

It must be accepted that in Old Maya the Macaw-bird was called makab (rebus value mak-hab 'big year' = 365 days) and in dialectal corruption (likewise epigraphic) mo-o-o = mo'o, from mo'au/makau etc. see e.g. Coe 1992 p151 or David Kelley 1962

MTED / Maya Transition Epigraphic Dictionary

- MAYA
- KUK 1/2/3/4/5 1) Venus - Quetzal
 2) Venus - ku₂-k(u)₂
 3) Venus - Big Star
 4) Venus = Day 8, Calendar
 5) Venus = 8-na-GI, Palenque
- The first ruler of Copán, founder of the Copán Dynasty, Mah-Kina Yax Kuk Mo, only known from listing, is obviously as fictive as the first Ten-No (Heaven's-Child) in Japan; Copán's First Ruler's full name was probably Chi-kin (not kinich) Raab KUK-.-A-.-(kik) which means WEST/EVENING's FIRST (appearance) of BLOOD/RED Venus. If historical, this Venus-associated War-Lord lived at about 300 BC. I assume that the Venus-star was previously believed to be a female celestial 'being' as in the Ancient Near East (but in South Arabia a hermaphrodite). Note that in other Maya places ruling Ladies have a KUK = Venus in their name: Machaquilá has the ruler Kin Chan and his wife Yax Pach Kuk (Pach = pa-tši where tši refers to sun-sinking, West, Evening). In Yaxchilán, there is a Lady Evening-Star (without the Quetzal head glyph) who died on March 30, 749 BC. Among the Non-Maya Nations, e.g. Aztecans, God Quetzalcoatl = 'feathered snake', God of the Evening and Morning Star, stabilized the male-nature of Venus in Maya-land.
- The Sum./Iran. background of the a.m. long name is beyond doubt:
 ū 'to sink', also 'to be eaten'; >tši;
 gin, 'brightness', *Sun' (Turk. gün);
 yaš/rad- 'green'; fratta-/pratyā- cf. pretes/pretyos 'first';
 hu-gün- 'nicely gay-coloured';
 a-gig₂ 'water-black = blood';

Borger, R. 1981 ABZ, MUS₃, n103 ← MJS Venus
 Pos. 2-a: Sum. ḫinni, Venus
 Inanna, Ennin, Min, Mīm₃, Winnig <Anāita/Anaida
 - Anāita = OPers/Avest. (Bartholomae n125); Middle Pers./Pahlavi Anāhit 'a female deity, Planet Venus' (cf. H.S. Nyberg II, 1974 p18). Akkad. Ak-tar (= Istar) may be a haplology of *Akitā-sterā- f. 'the Star of Eight', IE *Okato-stērā f.
 Thus Anāhitā from Aryan and Sanskrit *Annā-Asita/Asita, IE *Anna-Okatō =

'Mother tight', Lat. octō.
 'Eight' = holy number of planet Venus, cube root of 584 = synodic Venus-year (8 + 64 + 512).
 Ann 470, 3 ; 08.11.1988, annexed.
 For the Dresden Codex p49 Venus Table see MTED sub *BAK-KIN 400; a₂-kik₂-KUK₃.
 The Quetzal-bird's eye is not the glyph so ; it is MTED a₂-kik₂ (the required shading with cross-hatch or many vertical lines is omitted. In other instances, said lines appear in the eye, and the droplets are omitted).

Sumer, Old Iran
KUK 
 Middle Persian/Pahlavi
 Anāita 'Venus-Star' should be understood to stem from Anna-ahita/asita, a haplology, with *Aryan aśitā from aśtā 'eight', IE oktō(u), = 'Mother of Eight'; it seems that Sum. Inanna 'Venus' is a corruption, with metathesis, *anaina, *ana-hida- etc.
 Sum. 5.3 = 8 = Venus, not 15.

53 Maya, continued:

The Venus Tables of the Dresden Codex have the star-glyph with tšak 'big, red' prefixed. The 'etymon' of the glyph is

60 a₂-kik₂-a₂-kik₂ 'blood-blood' > 'red', see MTED s.v.

For 'Venus' = Day n8.  Day
 = Lam(b)at' = *rabbit note the significant

65 fact that the planet of which the holy number is 8 is assigned to Day n8. This makes me suppose that Day n7, Manik, the grasping hand, Sum. ū 'hand', refers to Sum. ū = Marduk, Babylon, whose Planet is Jupiter which planet has the holy number 7 (cube root of 399, Jupiter's Synodic Year).

75 The Palenque Venus-GI-glyph, with and without prefixed number 8, has in its ear the bar and 3 dots = 8 ; a duplication of 8 sometimes.

More occurrences of KUK 1/2/3/4/5
 80 will be submitted should the context recommend it.

- MTED KUK (3)
 a₂-kik₂
 water-black KUK₁
 = 'blood' KUK₂ KUK₃ KUK₄
 sum: a-gig 'id.'

 mo KUK₁
 = 'water', Akkad. ma 'id.'

 KUK₂
 = 'red', KUK₃
 a₂-kik₂-a₂-kik₂
 = 'blood-blood-red'
 For yax 'green, first' KUK₄
 see MTED raab.
 See MTED ū, 'to sink, to be eaten' with the Sum. and Indo-Iran. counterparts, ū₁; ū₂.
 See MTED kin, 'Sun' with Sum. counterpart, gin.
- Quetzalcoatl = Venus, esp. in Teotihuacan, is world-wide accepted.

Extract from HGS §14-a: Astronomy,
§14-a (1): Planets in Sumer, cf. APAO

Extract from SAGS 1988 (<Borger 1981)

n470 <^dXV (U-IA) 411-598a, ū-1ā =
džuta-dhasta, Skt. *daśa-hasta* 10 + 5
IE *dekm-ghessto-* 'ten + hand (five)'.
Pos. 3: Sum. ^dXV = Akk. Ištar (= Venus).
n418 <^dAJ U-DAR or GE₂3-DAR/^dAJ-DAR
Pos. 1: Akk. (^dIš8/^dAj-tár/dar = Ištar
n103 <^dVI MŪŠ (und INNIN) cf Anāhitā
Pos. 2: Sum. ^dInnin, Inanna, Emin, Nín,
Ninnig, <'in-eina <'Anāida/Anāhitā
(= OPers.; Avest. Barthol. n125).
Pahlavi Anāhit 'a female deity, the
planet Venus' (H.S. Nyberg II 1974 p18).
Akkad. Aš-tár may be a haplology of
'Aśita-stārā- f. 'the star of eight'
IE 'Okato-stērā f., cf Lat. octō '8'.
For more see below.
It is thus logical to derive Anāhitā
from a pre-Iranian 'Annā-Asitā, a cor-
ruption of Aryan (and 'Sanskrit') 'Annā-
Aśitā', IE 'Anna-Okatō 'Mother-Eight'.
'Eight' is the holy number of planet
Venus because $8 + 8^2 + 8^3 = 8 + 64 + 512$
= 584 days = the synodic year of Venus.
The Sum.-Bab. holy number of Venus, XV
= 15 stems from some prehistoric erroneous
reading: in a sort of Latin system
of cipher writing V. III was read 5
times 3 instead of 5 plus 3, thus 15
against correct 8.

Venus, female, has a male partner: Planet Mars. Here the story of Mars:
His synodic year has 780 days, approx.
8,87 + 8,87² + 8,87³. Assigning him a
holy number 9, that is $2 \times 4,5$ or two
'hands' of Mercury ($4,5 = 4$ fingers +
a half finger: the thumb) we find him
with one crippled hand indicating that
he is a warrior.

The Old Sumerian number 5.3 (= 8) was, perhaps in-
tentionally, misread/miswritten 5'3 (= 15) but re-
mained assigned to planet Venus, undisputed by
Assyriologists. Another strange numeric assign-
ment, due to popular etymology, refers to God
Adad whose 'holy number' is 10. Sum. Lowland
džuta, Highland data/dāda, Iran. dasa (New Pers.
dah), Sanskrit *daśa*- '10', was seen in "dat/dad/
Adad. - Sanskrit *tara* f. 'star', IE (Indo-
European) *stērā* f., cf. Latin *stella* from **ster-
lā* f. 'little star'. The insertion of -e- (as
a glide) (- -i-) in consonantal clusters is a
phenomenon recurring globally.

Addendum: The 'holy numbers' 7 (Jupiter), 8
(Venus), 9 (Mars) reappear, more or less hidden,
in Maya-land, Teotihuacan; because the synodic
Jupiter year results from $7 + 49 + 343 = 399$

Recall Mercury: In Babylon, a flat hand
being his symbol, showing 4 and a half
fingers (the half one being the thumb):
adding the powers of 4,5 as in the case
of Venus' '8' we obtain $4,5 + 4,5^2 +$
 $4,5^3 = 4,5 + 20,25 + 91,125 = 115,875$
cf the 115,88 of modern astronomers,
stating to be, in days, his synodic year
Two such hands, $2 \times 4,5$ (with one hand,
or rather its thumb, being injured) or
'9' (slightly 'injured') is the Martian
holy number. But his are two sons, '2-
Setzlinge', IE *dvi-sed-* > *dvi-zd-* (Pho-
bos and Deimos, his Moons); cf IE *ni-
sed-* > *ni-zd-* 'Neat' from *niedersetzen*.
Curious enough that IE *dwizd-* is German
Zwist (= Streit, fight etc.), cf Skt.
dviṣ (nominative *dvit*) f. enmity, hate;
foe; adj. disliking, hostile to, hating.
(IE *dus* 'ill, evil' could be a reduc-
tion of 'dvis'). So again: Mars, God of
Fighting. In India, his animal: the ele-
phant, co-inciding with the she-elephant
's long period of pregnancy.

To recapitulate: Mercury, 4,5; the hand.
Venus, 8; 2 hands (thumbs hidden) cov-
ering her breasts (2×4 fingers).
2 cows (in India) drawing her chariot
= 2 bovine periods of pregnancy = 584 .

Mars, brother of Venus, also 2 hands,
one thumb injured, 780 days, see above.
(The Sun, 360, has a horse drawing the
chariot, duration of equine pregnancy ;
or 4 horses referring to the leap-year
period of 4 years, the Olympiade).

Jupiter, holy number 7, because $7 + 7^2 + 7^3 = 7 + 49 + 343 = 399$ days of his
synodic year, sign: the oath hand.

Saturn's 378^d-synodic year receives a
rational value by adding neighbouring
Jupiter's figure $399^d = 777$, as discov-
ered by Prof. Lienhard Delekat, Bonn, at
the beginning of 1982.

For 8 (Venus) and 9 (Mars) see the main text.
The 2 raised hands (= $2 \times 4,5 = 9$) assignable to
planet Mars coincide with war lords' raised
arms/hands promising victory ... The injury,
inflicted by Athena to Mars in the Trojan war,
occurred rather during a cosmic upheaval.
Mercury's hand symbol, a flat hand, with thumb
visible, 4 fingers and a half one, is attested
for Babylon, see Mommsen 1904 p96; Mercury's
hand in Rome comprised the hand of merchants
and thieves, note Mercury, mercantile etc.;
In Tibet, lhagpa 'the hand', is Mercury's sign.

Jupiter = 7: the Jews' holy number, Hebrew *saba*
- '!', means also 'to swear, render an oath',
as in Rome, right hand raised, showing 2 fin-
gers (plus left hand = 5 lowered, $5 + 2 = 7$), 418,
Pos. 1
oath invoking Jove/Jehova/Yahu. 108
Pos. 2

n470 Pos. 3