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A Germanic-Tai Linguistic Puzzle

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Arne Østmoe

A Germanic - Tai Linguistic Puzzle

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1. THE HYPOTHESIS	2
2. GERMANIC/INDO-EUROPEAN	3
3. TAL/TAI-KADAI	5
4. INFLUENCES/SOUND CHANGES GM-TAI	9
4.1 Initial consonants	9
4.2 Table of initial consonants	10
4.3 Vowels	24
4.4 Final consonant	26
4.5 Tones	27
4.6 Tone character system	28
5. BIBLIOGRAPHY	31
6. ABBREVIATIONS	33
7 THE MATERIAL	34

1. THE HYPOTHESIS

The hypothesis is that the old core of Tai language has been influenced from Indo-European, most strongly from Germanic (GM).

As will be seen from other chapters this influence must also have been on Tai-Kadai, the language family to which Tai belongs.

The borrowings from Indic mostly did not occur early enough to have influenced Tai-Kadai, or even Proto-Tai.

Early and important influences on Tai-Kadai are from languages in the region, first of all Han-Chinese. Prapin Manomaivibool presented in 1975 a study containing 621 Thai words as related to Chinese. This Sino-Thai common vocabulary bristles with Indo-European stems. Tsung-tung Chang believes that Proto-Indo-European vocabulary became dominant in Old-Chinese, caused by contact with IE peoples in the third millennium B.C. It is suggested that IE-people had the leadership in the Old Chinese main language center. He presents 200 words, but claims to have registered 1500.

A possible influence from IE on Chinese has later transferred IE word stems to Tai along with the influence Chinese had on Tai.

The reason for believing in a direct influence from GM on Tai is that <u>Grimm's Law</u> seems to have acted before the transfer.

Partly, however Grimm's Law also seems to have acted through the IE to Chinese transfer (as by sound changes k- to h-). This could be coincidental or from a transformation state of IE. However, this study only examines the word transfer of GM to Tai, since systems to explain the sound changes are more easy to develop for GM to Tai than for IE to Tai, or for other IE languages to Tai for that matter. The case might have been as follows:

People af Austronesian and/or Austro-Asian origin merged with Germanic people who came to their area.

This resulted in a common language which contained a Germanic word stock, transformed to the usual simplified forms of the area, with tones and without Germanic grammar.

This common language was an important part of ProtoTai-Kadai.

The area was most probably within what today is Southern China, or perhaps farther to the north.

North of this area lived the Han-Chinese, from whose language words were adopted both before and after the common language was developed. Words adapted in those oldest periods are not normally regarded as borrowings.

2. GERMANIC/INDO-EUROPEAN

Germanic is one of the large families in IE, and consists of 3 main branches;

- -West Germanic (High and Low German, English, Dutch etc.)
- -North Germanic (West Norse: Icelandic, Norwegian, etc and East Norse: Danish, Swedish)
- -East Germanic (Gothic) (no longer a spoken language).

The oldest written Germanic is the translation of the bible to Gothic around

A.D. 300. For the preceding centuries, only runic inscriptons of simple letters cut in stone exist. In addition, comparative linguistics on GM and other IE languages have generated Germanic roots.

From the beginning, one question has to be asked: Why does Tai seem to come from GM, and not from the IE roots or from other IE languages?

In this context one should keep in mind Grimm's Law:

IE to GM	IE to GM	IE to GM
p, ph - f	bh - b	b - p
t,th - q	dh - ð	d - t
k, kh - h	gh - q, g	g - k

Verner's change in Grimm's Law occurs where stress originally not was on the proceding vowel: **IE to GM**

$$p-b$$
 $t-\delta$ $k-q, g$

In Tai the words show up with GM consonants, for instance:

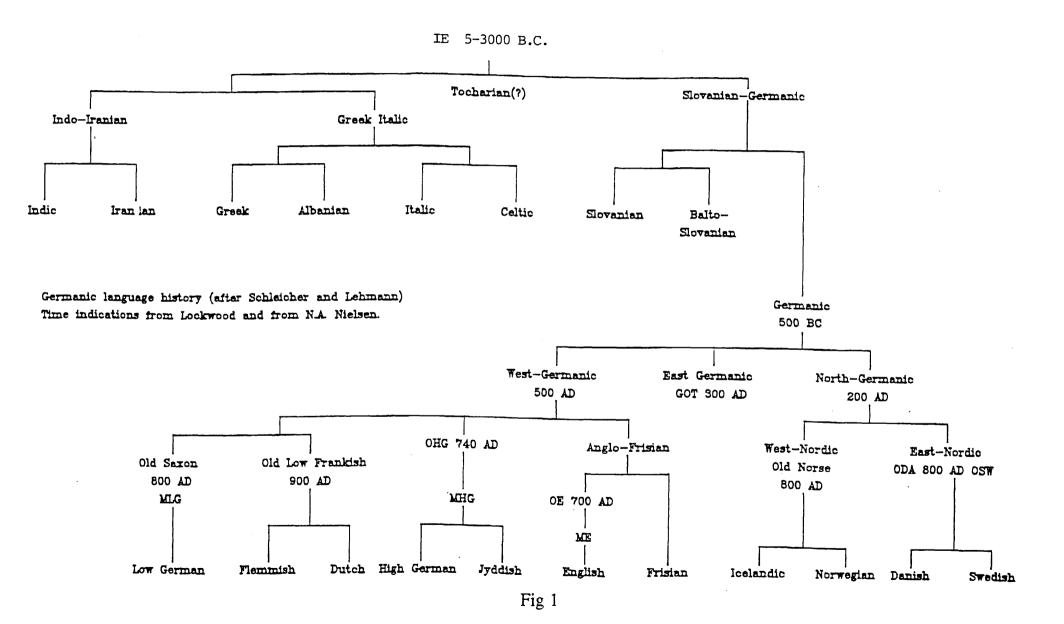
Gloss	Œ	GM	Tai		
fire	peur-	feur	fai		
side	pag-	fak	fâak		
valley	keubh-	hōp	hùp		
line	deuk-	tug	thěeu		
(see further chapter 4.1)					

If these Tai borrowings had come from IE directly that would mean the sound changes from IE to Tai were the same as those from IE to GM and that is not probable.

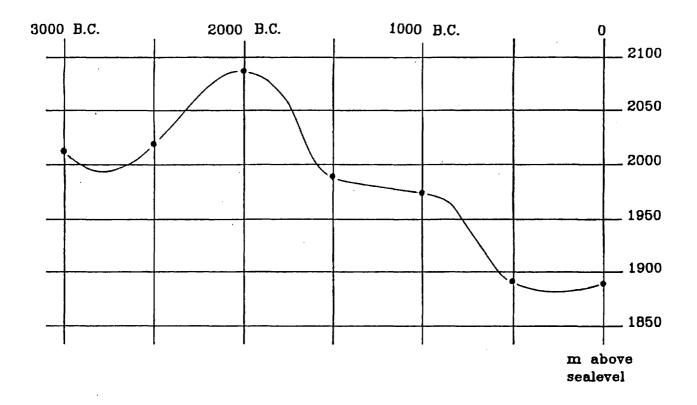
Further, the large majority of the Tai words in question generally fit better to GM than to IE roots or to any other IE language branch.

There can, however, be more than one stage of influence, as for instance some older items directly from IE roots, from other IE languages or from IE via Chinese influence.

This is too complicated and time consuming to deal with here so it is chosen to stick to the tangible context of a GM to Tai influence.



Upper tree limit variations in the Alps etc.



After Markgraf (1974), from H.H. Lamb

From the chart below a rational time assumption would be "within the second millenium B.C.":

	B.C.:	2500	2000	1500	1000	500
Content of the words			I		I	
Germanic language						I
Tai-Kadai language]		
Glottochronology		I		I		
Climate deterioration			I		I	
Aryans to India			I	I		

Just as an example, the author will mention that at the great archaeological site of Ban Chiang in North-East Thailand, there is found pottery from 1600-700 B.C. similar to pottery from former Czechoslovakia from the time 2500 B C - 1700 B.C. (Chin You-di, page 18). In other sites (Ban Sang Da, Sakon Nakhon and Ban Waeng) is found pottery from 1600-300 B.C. similar to pottery from Romania and former Yugoslavia dated there to 3-2000 B.C. (A. J. Labbé, pages 52, 53).

In China, comprehensive archaeological investigations are being carried out. Perhaps more work on those could throw light on our subject. The most significant findings in China are the over 110 well preserved <u>mummies</u> of Europoid people found in Sinkiang over the last decades, revealed for the world outside China only a couple of years ago.

Let us quote the American professor Victor H. Mair of the University of Pennsylvania who is in charge of a scientific investigation of the bodies (Mair, "Bronze Age and Iron Age Caucasian Corpses of the Tarim Basin", pages 8, 9, 12-13):

Page 8:

"It is a 'two over two' diagonal twill weave, with Z-spun single ply thread, very similar to those found in Hallstatt period Europe (beginning ca. 1100 BCE and ending around 500 BCE). Thus the find fram Hami roughly corresponds with the earliest twills from the Hallstatt salt mines of Germany and Austria. From what is presently understood in the history of textiles, this kind of weave is *characteristically European*. Twill weaves are common in Hallstatt period Europe but prior to that are very rare anywhere."

Page 9:

"Some of the Late Bronze Age Scandinavian 'bog' finds are also relevant to this discussion; there is an example from Gerumsberg in southern Sweden with a very sophisticated 'pointed' twill (a checkered 'goose-eye' twill design, looking like a houndstooth), with problematic dates but perhaps lying somewhere between 1800 and 1000 BCE. Although most textiles from Scandinavia from this period are of plain weave, there are few other early examples of twills, for example from Haastrup

in Denmark, dating to the Late Bronze VI Period, ca. early first millennium BCE. This sample is also like the one from Hami, i.e., a diagonal two over two twill."

Pages 12-13:

"Altough they do not speak, we know exactly what the Caucasian corpses of the Tarim Basin look like because their bodies and clothes they wear have been preserved for us. Fortunately, we also know what the Tocharians looked like, because they were vividly portrayed in wall paintings at Kizil (also spelled Qizil) and Kumtura (also spelled Qumtura), Buddist cave sites near Kucha. There we find aristocratic donors with red or blond hair parted neatly in the middle, long noses, blue or green eyes set in narrow faces, and tall slim bodies. Like European knights, they wear long broadswords inserted in scabbards hung from their waists. The swords are of early gothic type, with disk-like pommels and cross-shaped grip-guards." End of quotations from Victor H. Mair.

Dr. Tsung-tung Chang in his book "Indo-European Vocabulary in Old Chinese" writes (p. 32):

"Among Indo-European dialects, Germanic languages seem to have been mostly akin to Old Chinese in consideration of the following points:

- a. Among Indo-European dialects, Germanic preserved the largest number of cognate words also to be found in Chinese.
- b. Germanic and Chinese belong to the group of so-called *centum* languages, in which all Proto-Indo-European velars remain velars (with only a few exceptional variants in Chinese.)

The initial /h/ in Germanic corresponds mostly to /h/ and and /fi/ in old Chinese. Though Germanic /h/ has hitherto been interpreted as a shift from Indo-European /k/, it must have existed already in Proto-Indo-European, since interrogatives both in Germanic and Chinese have laryngeal initials." End of quotation from Dr. Chang.

The China expert and linguist, E. G. Pulleyblank, gives some interesting information regarding <u>Chinese conditions</u> at that time (see Bibliography). He claims there is good historical evidence that South China and the Yangtze region were then non-Chinese in language, and was only drawn into the circle of Chinese culture during the first millennium B.C.

3. TAI/TAI-KADAI

Thai is the name of the official language of Thailand.

Tai is the name of the Tai language family (as described by Fang Kuei Li in his book).

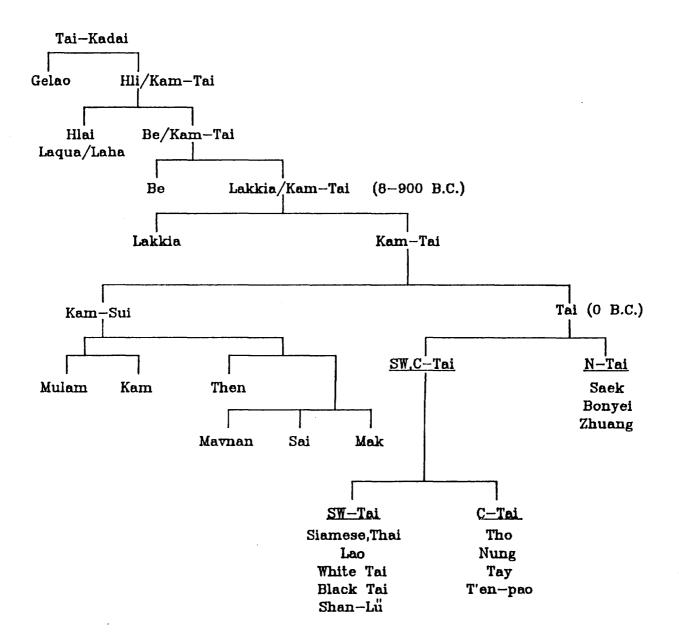
Siamese is the Tai dialect of most of Thailand, being nearly the same as Thai.

SWT are the South Western Tai dialects which comprise Siamese and Thai, Shan and many more.

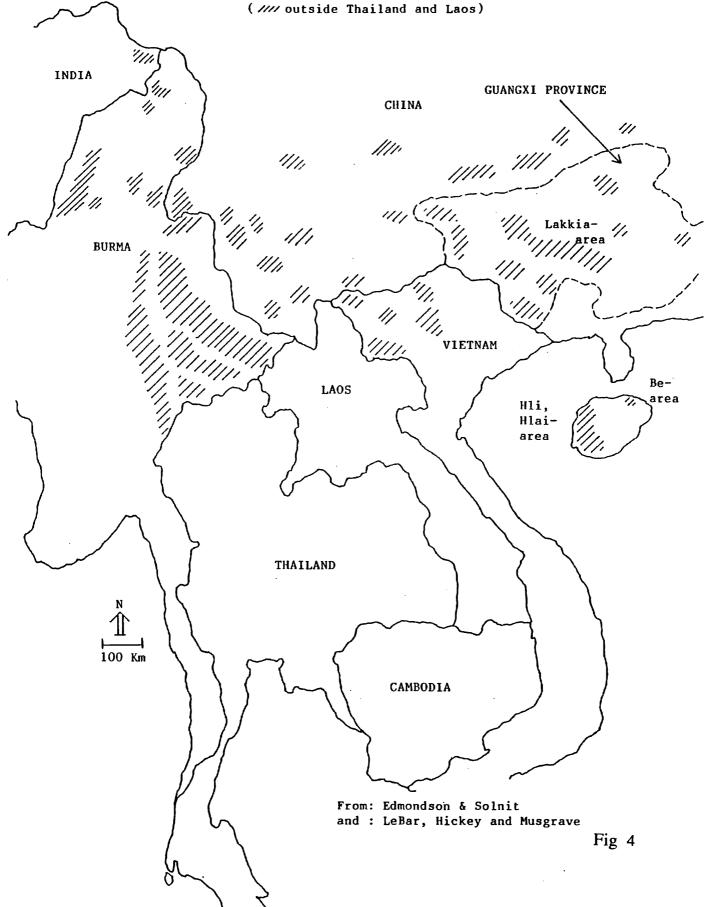
Tai-Kadai is the family name of all Tai-related languages, see figs. 3 and 4.

As of today, two theories dominate regarding the parentage of Tai-Kadai (Edmondson & Solnit, page 6):

Tai-Kadai relationship



Tai-Kadai speaking world



Review of the two languages in the past (Time scale uncertain)

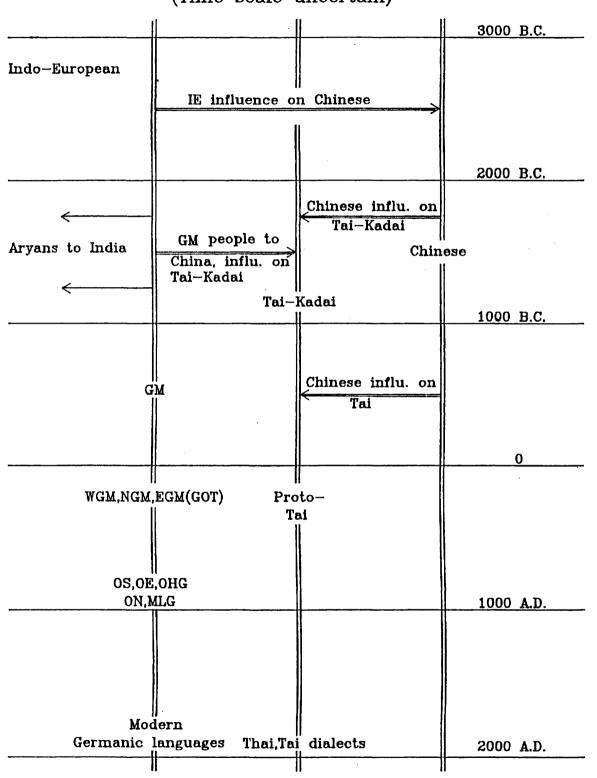


Fig 5

- 1. An Austro-Tai Hypothesis, which claims that Kadai, Austronesian, Miao-Yao, and recently Japanese, are all sister stocks of a higher family called Austro-Tai.
- 2. A Sino-Tibetan Hypothesis that Kadai and Kam-Tai constitute one group of a (Grand) Sino-Tibetan Asian Mainland family that includes, besides Kam-Tai, Sinitic, Tibeto-Burman and Miao-Yao. (This theory has more or less been abandoned by now.)

The Han Chinese languages are Sinitic. Miao-Yao is a Sino-Tibetan language used by large groups inside China. The Miao-Yao people are living more or less in the same area of China as Tai/Kadai.

In this book, the lists of similar words will be presented without dealing with where the original people of the region came from before the GM influence, or who they were.

Let us quote Paul A. Benedict. He gives 4 "rules" when researching ProtoTai-Kadai (Edmondson & Solnit, ibid. page 324):

- "1. Do make use of the early (Chinese) loan word evidence but proceed only with extreme caution.
- 2. Do consider the possibility that forms/roots presenting problems if given an AT (AustroTai) etymology may in fact represent well-disguised early loans from Chinese.
- 3. Do seek outside help whenever possible in the assignment of proto-glosses to polysemic Kadai roots, with Autronesian in general the best bet.
- 4. Do keep in mind the same outside help when setting up reconstructions, even at lower levels such as ProtoTai and Proto Kam Sui."

Can GM be "an outside help"?

Let us further quote Paul K. Benedict:

"Proto-Austro-Tai (PAT), spoken along the shores of the South China Sea and extending well inland, was a nice (largely disyllabic) language with an interesting morphological apparatus of prefixes, infixes, and suffixes. It boasted a symmetrical six-vowel system (u, o, o, a, i, e), a rich consonantal system (with both palatals and alveolo-palatals as well as postvelars), and, in all probability, a pitch-accent system. It did, however, have one big problem - location. Early on, one group of PAT speakers fell under the hegemony of the ancestral Chinese and succumbed to an ukase delivered by their new masters: reduce all your vocables to monosyllables and try to forget about your affixes. And while we're at it, let's convert your miserable tone accent to REAL tones. What's more, you won't have far to look for these; it so happens that we Chinese have a neat three-tone system and we'll give it to you. Perhaps better: we'll exchange for it; we'll spruce up your

language and in return you can send some things our way, like those beautiful bronzes that you have a way with." (Edmondson & Solnit, page 324)

As we see, the Benedict description of Proto-Austro-Tai agrees rather well with a description of Germanic, although Benedict drew another conclusion about the origin (an Eastern and Pacific origin).

The GM languages were of course also monosyllable as far as the roots are concerned. Prefixes, suffixes etc. made up the other syllables.

The best choice would have been a comparison with all Tai-Kadai languages. To a certain degree those languages can be studied thanks to the book *Comparative Kadai* by Edmondson and Solnit. It can briefly be said about the other Tai-Kadai branches that in the Sui, Kam, Lakkia and Be branches the words are clearly related to Tai. See the table below. From other information in Edmondson and Solnit, Hlai is said to be somewhat less related to Tai than are the others. The Gelao languages, placed as a separate main branch under Tai-Kadai, are even more different. A large part of Hlai vocabulary is not in PT. This might point to a sister relationship under partly other linguistic influence, as for instance Han-Chinese. (See Edmondson and Solnit page 285 and Matisoff's study in the same book).

Where can Germanic come in?

If Germanic had an influence upon ProtoTai, it clearly also had an influence upon Be/Kam-Tai. The development before that is still very uncertain. In Hlai a lot of words are similar to those in the Kam-Tai "main" branch. About Gelao nothing can be said for sure. Germanic must also have had an influence at least upon Hlai. This means GM could have been involved in the formation of ProtoTai-Kadai, instead of, or in addition to, Benedict's "Austro-Tai".

There are possibilities for an influence on Tai-Kadai from other IE languages or from the IE-base language. There might well have been more than one level of influence, as for instance an older one directly from IE roots, and a younger one from GM. Being so far back in time covered in the dark by lack of evidence it is chosen not to elaborate more on these options.

From the material it seems that the most probable influence is from GM, and from GM to Tai, not the other way.

Here it is chosen to stick to this most tangible subject: the influence which seems to have taken place from GM on Tai. The comparison of these two well-documented languages is done in a comprehensive way.

To bring in the other Tai-Kadai branches directly is not efficient. They are less well documented, and the task would have been too large at this stage.

See the table as examples of words in different languages. It seems that the influence from GM can have been on an ancestor language on Tai and on the other Tai/Kadai branches as well.

For the most, GM- Tai sound changes are quite regular. For some influences there are discrepancies. See further chapter 4.

This could have stemmed from inconsistent material, but could also have come from unknown, irregular developments over the many centuries between a possible GM influence on ProtoTai-Kadai and when the ProtoTai language was established as it appears in Fang Kuei Li's book.

Examples of words from Tai-Kadai Languages:

(Tone codes are left out here.)

E.Gloss	SWT	Sui	Kam	Lakkia	Be	Hlai	GM
rain	fon	fən	pjən	fen	pfun	fun	furs
forget	l ii m	laam	laam	phlem	-	l ii m (t)	glaum
day, sun	wan	wan	man	wan	vən	van	(dag)waz
water	nam	nam	nam	num	nam	nam	nebl
knee	khau	qu	kwaau	kou	kau	rou (t)	knef
many	laai	kuŋ	kyuŋ	loŋ	-	laai	likalik
male	chaai	-	-	kei	-	-	kerl
he,it	man	baan	paan	-	-	maan	mann
star -	daau	?daau	-	tau-blet	-	raau	stairno
room	suam	fum	-	toom	-	-	timb
tooth	fan	wjan	pjan	wan	tin	fan	fang-zahn
launder	sak	lak	sak	wak	dak	too?	sak,θwah
fire	fai	vi	pui	pui	-	fei	feur
thatch	khaa	ja	ta	ja	tia	za	halm
fingernail	lep	?djap	nep	pliip	-	liip	klew
excrement	khii	qi	e	kwei	kai	haai	skit
pond	thum	dam	tam	tam	-	-	stam
frog	kop	-	-	-	op	-	gop
pillar	sau	-	-	-	hou	-	saul
cook	tom	-	-	-	tom	-	toum
slow, late	saai	-	-	-	səi	-	sain

From

Edmondson and Solnit "Comparative Kadai":

The articles are:

Matisoff:

"Proto-Hlai Initials and Tones"

Solnit:

"The Position of Lakkia within Kadai"

Hansell:

"The Relation of Be to Tai"

Thurgood:

"Proto Kam Sui. A Reconstruction of the Six Kam-Sui languages."

4. INFLUENCES/SOUND CHANGES GM-TAI

4.1 Initial consonants

Table of Proto-Tai Initial Consonants (from Li)

	Lab-	Den-	Velars	Sibi-	Laryn-	-	ds and
	ials	tals		lants	geals	semiv	owels
<u>Stops</u>							
Unaspirated	p-	t-	k-	č-			
Aspirated	ph-	th-	kh-	čh-			
Glottalised	?b-	?d-			?-	?j-	?w?
Voiced	b-	d-	g-	j-			
<u>Nasals</u>							
Voiced	m-	n-	ŋ-	ň-		l-	r-
Voiceless	hm-	hn-	hŋ-	hň-		hl-	hr-
<u>Fricatives</u>							
Voiceless	f-		Х-	S-	h-		
Voiced	V-		Y -	Z-		j-	W-

Comments on the transfer of initial consonants:

- The Tai-Kadai stage(s) between GM and PT were open to many changes.
- GM had numerous prefixes. A much-used prefix ga- in GM is the most frequent supposed additional sound. The meaning of ga- is "together with" or only "with". The prefix is also used by verbs to signify "the start and finish of an action".

In the lists ga- is used also where the consonant sound is supposed to have been unvoiced, while g usually is regarded as voiced. The reason is that the GM g-sound in relation to Thai in short, unstressed syllables is heard as unvoiced kh- (according to Banya), as d- and b- also, and the same might have been the case then.

However, in some cases what is here supposed to have been the *ga*-prefix might well have been another of the many GM-prefixes, like the unvoiced OHG *fir*, GOT *faúr*, representing a "removing, hindering, negative or destroying meaning", GOT *faúr* "in front of, by, past" or GOT *fair* "away, off".

Thus, the ga- that is placed in brackets might in some cases only represent a prefix more generally, and preferably one with an unvoiced initial consonant.

- The transfer being auditive, depending of pronounciation, hearing, memory and new pronounciation makes possible many mistakes and irregularities. As for instance, an unvoiced sound today, like 4,8 GM feur, fak might have been pronounced voiced veur, vak.

To make it easy to trace the words in the book of Fang Kuei Li, A Handbook of Comparative Tai, the words are here placed as in the group number of his book.

Patterns for change of the initial consonants:

IE	GM	Tai/Kadai	PΤ	Cpt. no.
p-	f-	?	f-,v-	4.7, 4.8
t-	θ-		d-	6.3
k-	h-		h-	13.2
b-	p-		php-	4.2, 4.1
d-	t-		th-,t	6.2, 6.1
g-	ki/e-		č-	9.3
	k-,sk-		k-,kh-,j	10.1, 10.2, 9.5
bh-	b-		b-	4.3
	[]b-		?b-	4.4
dh-	[]d-,θ-		?d-	6.4
gh-	g-		g-,k-	10.3, 10.1
	[]g-		ŋ-	10.4

The rest of the groups are in the following table.

4.2 Table of initial consonants

The table below is a table for the initial consonant sound changes but is also the table in which <u>all the words</u> used in this article are presented.

The GM words are mostly GM roots or else a root from the three main branches WGM, EGM or NGM or from an old GM language.

In the context of initial consonant it does not matter if a GM language is used, and not only GM roots, because the initial consonant is mostly the same in the different languages as in the GM root.

To obtain uniform etymologies <u>one</u> book has been the chief guide, N. Å. Nielsen 1990. Also consulted are J. Pokorny, J. de Vries, and a few others.

Parentheses () are letter/s supposed to have fallen away. Brackets [] are for letter/s supposed to have been in the word before. The notation "v" after a word in the first column indicates that it is a verb. The notation "clf." indicates a classifier.

	GM	PT	Siam.	Tone code
4.1	sp-	p		
spin v	spin	p-	pàn	B 1
be sick v	speiw (vomit)		pùai	B1
4.2	p-	ph-		
split v	spalt	ph-	phàa	B1
clothing	plag		phâa	Cl
4.3	b-	b-		
carry v	ber	b-	phaa	A2
elder sibl	bew (grow)		phii	B2
blow (wind) v	blast		phát	D2S
bunch	bunk		phuaŋ	A2
floor	buni		ph ii n	C2
4.4	[]b-	?b-		
village	[]būwan	?b-	bâan	B1
fish hook	[]bit	•	bèt	D1S
water recedes	[]brok		bòk	D1S
above	óban		bon	A1
site	[]boθl		bòon	B1
blind	[]blund		bòot	D1L
4.5	m-	m-		
horse	marh	m-	maá	C2
come v	quemjan		maa	A2
he,it	man (a man)		man	A2
wife	maqwir		mia	A2
knife	mait		miit	D2L
round	mond		mon	A2
ant	motte		mót	D2S
weevil	motte		môət	D2L
die (lose life)	murθa		môət	D2L
dark	merk		miit	D2L
feel stiff v	meθig		miâi	B2
some	maniq		maŋ	A2

4.5.1	mw/f-	mw-		
wood	maiwið	mw-	mái	C2
hand	mundfing		m li	A2
meals,clf	mēltið		mii	C2
		•		
4.6	gm-	hm-		D .1
soak v	[ga]mat	hm-	màa	B1
mark	[ga]mark		măai	A1
widow(er)	gamak -		mâai	C1
doctor	gamot		mžo	A1
group	[ga]mūhōn		mùu	B1
damp	[ga]mat		màat	DIL
empty	āmotida		mòt	DIS
	sm-	hm-		
stink v	smel	hm-	měn	A 1
cooking pot	smor (to steam)		môo	C1
fog	smōk		mòok	DIL
cover v	smeuq		mòk	DIS
sad	[s]mornen		mòn	B 1
4.7	f-	f-		
palm, hand	folm	f	fàa	B 1
scabbard	fak		fàk	DIS
bury v	ferg		f ăr j	A1
rain	furs		fon	A1
sticky	fast		f ii t	D1L
dust	fun		fùn	B1
4.8	f-	V-		
fire	feur		fai	A2
side	fak	V	fâak	D2L
teeth	fanh		fan	A2
deer	fénaðr		faan	A2
firewood	feurwið		f ii n	A2
hear v				A2
	fang (catch sound) faim		faŋ faâ	B2
scum	iaiiii		ıaa	D4
4.9	w-	w		,

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say v	swar	w-	waâ	B2
fan (air)	wib		wii	A2
discard water	wet		wit	D2S
throw water in face	wask		wák	D2S
kite	wab (float in the air)		wâau	B2
4.10	k/h/g w-	hw-		
quake v	kwik	hw-	wǎi	A1
sweet	hwann (sweet plant)		wăan	A1
hope v	[ga]wenj		wăŋ	A1
	s/θw-	hw-		
swim v	swim	hw/	wâai	C1
comb	swif		wĭi	Al
sow v	sāwan		wàan	B1
slit v	θ wer		wè	B1
5.2	p/br-	pl-		
spread out v	spraið	pl-	plài	B1
bark, on trees	bark		pl i àk	D1L
5.3	b/pr-	pr-		
break	brek	pr-	tèek	DIL
5.4	b/pr-	phl/r-		
forehead	brag		phàak	DIL
burn v	brenw		phǎu	A1
split open v	spring	phr-	pheèk	DIL
5.6	[]bl-	?bl/r-		
whitish	[]blank	?bl/r-	dàaŋ	B1
flower	[]blō(s)k		dòok	D1L
moon	mēn		dian	A1
dregs of wine	[]bilaib		dii (Lch)	B1
5.7	ml-	ml/r-		
much	mekila	ml/r-	mâak	D2L
love v	[mit]alisk		mák, ma-lák	D2S

5.8	w/fr-	fr-, vr-,	vl-	
sword	swerða	f/vr-	phráa	C2
tomorrow	frodaq		phrúk	D2L
6.1	(s)t	t-		
pound v	stamp	t-	tam	A1
strike v	strik		tii	A1
foot	stal		tiin	A 1
hammer in	stuk		tòok	D1L
boil v	toum (steam)		tôm	C 1
collapse v	tum		tum (Lch)	B 1
earth	tumf		tom	A1
tree trunk	stabn		tôn	C1
peck	tut		tòot	D1L
door	turi, dur	(prà)	tuu	Al
animals, clf.	tior,deut		tua	Al
hit v	stek		tik (Lch)	D1S
draw up v	taikn		tèŋ	B1
stop v	standis		tâan	C1
6.2	t-	th-		
line	tug	th-	thěeu	A1
cup	teuq (utility article)		thûai	C1
flood	stuwian		thûam	C1
wild	stur		thìan	B 1
young male animal	tik		thìk	DIS
team up v	taum		thiam	A 1
bars, clf.	stang		thêŋ	C 1
woman, young	taus		thəə	A 1
	θ-	th-		
thick	θek		thìi	B1
noon	θ ing	th-	thiâŋ	C 1
wash v	θ wah		thǔu	A 1
6.3	θ-	d-		
dare v	θ ur	d-	tháa	C2
Tai people	θegn (free man)		thai	A2
group	θeuð		thuai A2	B2

Arne Østmoe; "A Germanic-Tai Linguistic Puzzle". Sino-Platonic Papers, 64 (January 1995)

throughhout	θurh		thûa	B2
then	θед		thâa	B2
	st-	d-		
stick n	stab	d-	tháu	C2
place	stað		thii	B2
single	stuk		thôok	D2L
6.4	[]d-	?d-		
idle	[]dæs	?d-	daai	A1
extinguish v	[]drep		dàp	D1S
white spot	[]dílí		dèen	B1
border	[]dail		deen	A 1
tap v	[]dent		dìit	D1L
smell n	[]dám		dom	A 1
high land	[] deun		necb	A1
together with	gadur		dûai	C1
hot	hait		diàt	DiL
	θ-	?d-		
thread	θ reð	?d-	dâai	C1
get v	moθ-tak		dâi	C 1
good	θiq		dii	A1
6.5	n-	n-		
take v	nēm	n-	nam	A2
this	neh-der		nii	C2
finger	fengur		niú	C2
younger sibling	anjung		nóoŋ	C2
soft	num		nûm	B2
meat	naut		n i á	C2
here	nēh-hēr		nîi	B2
next	nēh-wista		nâa	B2
there	nēh-θar		nân	B2
over there	nēh-obar		nóon	C2
6.6	k/gr/n	hn-		
morning	greuj	hn-	nai (Lch)	A 1
pinch v	knip		n ii p	DIL

7.2	tr/l-	tl-		
full	tēm	tl-	tem	A 1
get up v	trin		t ii n	B 1
7.3	tr-	tr-		
eye	tar	tr-	taa	Al
die (lose life)	streuk (leave,pass)		taai	A 1
7.4	θl/r-	thl-	. ^	
wait v	θul	thl-	thâa	Cl
plough	arθra-		thăi	A1
7.5	t/θr-	thr-		
carry	θreif-	thr-	hiû	C1
pig trough	hetarō		luu (Po-ai)	A 1
stone	stein		hiň	A 1
cook v	trunk (put under water)	h ǔŋ	A1
see v	tar-sehwan		hěn	A 1
7.6	d/tr-	dl-		
drag v	drag	dl-	lâak	D2L
drought	draug		léeŋ	C2
wind (blow)	sturm		lom	A2
	()/sl-	dl-		
sharpen v	slip	dl-	láp	D2S
small	lēk		lék	D2S
nail	klew		lép	D2S
lick v	slik		lia	A2
wheel	hwelwula		lốo	C2
skin v	flah		lôok	D2L
stroke v	slup		lûup	D2L
bald	flain		láan	C2
7.7	θr-	dr-		·
boat	roθra	dr-	r i a	A 2

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star sunlight which bone	stairn d(aq)leuhs h(wa)t-lik knuk	?dl/r-	daau deet dai krà-dùuk,nook(Po-ai)	A1 D1L A1 D1L
7.9	()I	nl/r		
water	nebla	nl-	nám	C2
bird	fluqla		nók	D2S
	•			
8.1	1-	l-		
leave v	lib	l-	laa	A2
grease	libar		laau (Lch)	A2
lure v	lur		ccl	B2
choose v	wellig		liak	D2L
blood	bloð		fiât	D2L
forget v	glaum		l i im	A2
alive	leb		lii (Po-ai)	C2
grounds	land		laan	A2
flaming	luq		lúk	D2S
8.2	[]1-	hl-		
late	[ga]lat	hl-	lâa	C 1
below	bilēq		lâa	C 1
many	likalik		lǎai	A 1
grandchild	anilan		lăan	Al
behind	hlenk (hip)		lǎŋ	A1
close one's eyes	slap		làp	D1S
sharpen with knife	kliob		l ă u	A 1
play v	galiksam		lên	C 1
incline sharply	brink		liŋ (Po-ai)	B1
mud	[ga]lom		lòm	B1
loose	[]leum		lŭam	A1
brilliant shining	glim		liâm	C 1
glance	glip		l i àp	D1L
overflow	flaum		lăam	A1
shoulder	agslā[]		lài	B1
be left over	[]lib		l i a	A1
lure v	[ga]lok		lòok	D1L
support v	hleun		nŭn	A1

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wedge	klimp		lim	A1
8.3	r-	r-		
strength	strang	r-	reeŋ	A2
quick	rip		reu	A2
call v	skrik		riâk	D2L
join together	rum		rûam	B2
detach v	raut		rûut	D2L
fence	raho		rúa	C2
house	razn		r i an	A2
hole	roub		ruu	A2
beam	ruot		rôot	D2L
building, clf.	rong,wrunh (beam)		roon	A2
rim	rem		rim	A2
house	razn		ráan	C2
beam	rgng,wrunh		roon	A2
press v	kreist		rîit	D2L
wealthy	rik		ruai	A2
stripe	streip		riú	C2
sprinkle v	sprut		rót	D2S
bran	ham		ram	A2
know v	knaw		rúu	C2
learn v	laiz		rian	A2
8.4	[]r-	hr-		
room	uranho	hr-	hôoŋ	C1
9.1				
late	s- sain	S-	sǎai	A 1
back of blade	sér	S-	săn	Al
pillar	saul		său	Al
tell v			sào	B1
	saq sing		sian	A1
pronounce v	sidhl		sên	C1
rope	SIGIII		SCII	CI
suck v	sup		sùup	D1L
sad	sur		sâu	C1
	0.4			
	θ/t-	S-		

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rib n	tind		sîi	C1
	θu (singl)		suu	A1
you (pl.)	tun		sŭan	Al
garden			sûam	C1
room	timb		suam	CI
9.2	[]s-	Z-		
sand	sand	z-	saai	A2
wash clothes	(niθ)sak	2	sák	D2S
who	(hwat)sinalik		siŋ	B2
WIIO	(II wat) 3 II alik		Sitj	DL
9.3	k(i/e)	č		
cup	kaz, ker	č	čaan A1	C1
be painful v	kipp	•	čèp	D1S
dip into v	kim		ćim	B1,C1
insipid	kiwð		čiit	D1L
tickle v	ket		čii	C1
mirror	sk[]uwqa		čòk	D1S
•	<u>-</u>			
stop up v	lukj		čùk	D1S
light	leuht		čùt	D1S
master	haub		čâu	C1
9.4	s()-	čh-		
I, me	selb,sjalfr	čh-	čhăn	A 1
shine	skin		čhǎai	A1
9.5	(s)k-	j-		
be so v	skeh (happen)	j-	čhâi	B2
slant v	skaif		čháai	C2
veranda	skawal		čhaan	A2
artisan	skalk (servant)		čhâaŋ	B2
taste v	keim		čhim	A2
male,men	kerl		čhaai	A2
trash	skal		čhaan	A2
sore v	skamp		čhám	C2
coast	skarj		čhaai	A2
9.6	()n-	ň-		
not yet	ne-anθiqin	ň-	jaŋ	A2

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mosquito	muwju[nk]		juŋ	A2
9.7	g/kr-, hr-	hň-		
grass	gras	hň-	jâa	C 1
ridicule v	haun		jăn	A1
woman	kerlin		jin jin	A1
			<i>J J</i>	
9.8	g,gi-	j-		
cover v	gawon,giem		jaa	A2
take a step v	gang,gjeng		jâaŋ	B2
lift up v	habja		јээ	A2
9.9	g/h/k-	?j-		
prohibitive	ne-eigi	? j-	jàa	B 1
visit v	haim		ji â m C1	A 1
house	hus		jâu	C 1
cool	kalð		jen	A1
stay v	hjo		jùu	B 1
kink	ke(n)k		jìk	D1S
want v	kerski		jàak	D1L
10.1	k-	k-		
chicken	keuk (little clump)	k-	kài	B 1
hold in the hand v	kam		kam	A 1
cut v	ket		kaat (Lch)	D1L
cut w. a sickle v	kerf		kiàu	B1
eat v	kefal		kin	A1
I, me	ekan		kuu	A1
shoe	skouh		k i àk	D1L
skillful	kwik		kèŋ	B1
	g-	k-		
together	gadur	k-	kan	A1
collect v	gab, kep		kèp	D1S
branch	grinqa		kìŋ	B 1
beforehand	gjez, igoor		kòon	B1
frog	gop		kòp	D1S
give birth v	geut		kəət	D1L
step, walk v	gab,gaa		kâau	C1

10.2	sk/k-	kh-		
thigh	skink	kh-	khǎa	A1
horn	knuf	KII-	khău	Al
muddy water	skul		khùn	B1
write v			khian	A1
	sker (shear)			B1
race n	skeiðgang		khèeŋ	DΙ
10.3	g-	g-		
choke v	gagin	g-	khéen	C2
tongs	gem	6	khiim	A2
think v	get		khit	D2S
odd	gert		khîi	B2
	80			
	k-	g-		
chew v	kew	g-	khiáu	C2
sickle n	knif		khiau	A2
narrow	knap		khêep	D2L
crooked	krok		koo (Lch)	A2
carry on shoulder	skulter		khoon	A2
·				
10.4	[]g-	ŋ-		
fork	[]gabal	ŋ-	ŋâa	B2
easy	[]garaiði		ŋâai	B2
open mouth v	[]gap		ŋâap	D2L
beautiful	[an]genehm		ŋaam	A2
have a nap v	[]glip		ŋîip	D2L
	sk-	ŋ-		
shadow	skuw	ŋ	ŋau	A2
	nk-	ŋ-		
myth. sea monster	nikwes	ŋ-	n i âk	D2L
10.5	[]ng/k-	hrj-		
yawn v	anagiw	hŋ-	hăau, ŋaau (Lch)	A1
gum (tooth)	[an]keuk		ŋɨàk	D1L
10.6	k()	х-		

Arne Østmoe; "A Germanic-Tai Linguistic Puzzle". Sino-Platonic Papers, 64 (January 1995)

knee	knew	Х-	khàu	B1
hook	hōk		khởo	A1
knot	knut		khòot	D1L
scrape off v	krot		khòot	DIL
rice	kurn (grain)		khâu	C1
exrement	skit		khîi	C1
joint	skaut		khôo	C1
young (chicken)	keuklin		khiàŋ	B1
young (emeken)	ROURIN		Kinaij	ы
10.7	g-	γ-		
dike, ricefield	garð	Υ -	khan	A2
praise v	gal		kan (Lch)	B2
gird v	gerd	•	khâat	D2L
span betw. thumb	grip		khi̇̂ip	D2L
and midl. finger				
_				
	k-	Υ-		
lower leg	skank	Y -	khêeŋ	B2
hammer n	kul		khóon	C2
brag v	skrut		khui	A2
	h-	Y -		
thatch grass	halm	Υ -	khaa	A2
throat	hals		khoo	A2
chin	hak		khaaŋ	A2
11.1	kl-	kl-		
tube	klank (hollow obj)	kl-	klaŋ	A1
cold (water)	kalð		kat (Lch)	D1S
charcoal	kul		čoo (Po-ai)	B1
11.2	kr-	kr-		
afraid	skraum	kr-	klua	A1
11.3	k(l)-	khl		
spider	kang	khl	khjaan (Lch)	A1
herd n	klung		khlŏoŋ	A1
11.4	k(r)-	khr-		•

Arne Q	Østmoe: "	'Α	Germanic-Tai	Linguistic	Puzzle".	Sino-Platonic	Papers,	64	(January	1995)
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egg ask v	ajja, aggja askōj	khr-	khài khŏo	B1 A1
scrape v	krat		khàt	DIS
11.7	-1	. 1		
11.5	gl-	gl-	111^ 1	Dal
burn v	glowka	gl-	khlôok	D2L
11.6	gr-	gr-		
kitchen	grōbō (hollow in gr.)	gr-	khrua	A2
	grood (none, m gri)	<i>6</i> -		
11.8	[]r	xr-		
shower	[]req	xr-	hàa	B1
ear	auzan, eyra		hǔu	A 1
mountain stream	streuk		hûai	C1
road	garuns		hŏn	A1
12.1	kw-	kw-		
sweep v	kwast	kw-	kwàat	D1L
12.4	qw-	ŋw-		
day	daqwaz	ŋw-	wan	A2
yesterday	daqwaz-gjez		wan kòon Æ waan	A2
12.5	()kw-	xw-		
axe	akwez	xw-	khwǎan	A 1
12.6	kw-	YW-		
buffalo	kwikfé	YW-	khwaai	A2
		_		
13.1	g/k/h-	?-	- ^	
open (mouth)	gap	?-	?âa	Cl
vapor	[ga]ai-ma		?ai	A1
cough v	kik		?ai	Al
one	eitt		?èt	D1S
full	kim		?ìm	B1
warm	hlew,hlyr		?ùn	B1
other	hinn		? ii n	B1
13.2	h	h		
13.4	h-	h-		•

Arne Østmoe; "A Germanic-Tai Linguistic Puzzle". Sino-Platonic Papers, 64 (January 1995)

morning	unh[]twon	h-	hat (Po-ai)	D1S
hips	hupiz		hiit (Po-ai)	D1L
valley	hōp		hùp	D1S
parade	harj (army)		hèe	B1
forbid v	hamp		hâam	C1
dry	(ar)heigetun		hêeŋ	C1
hungry	hip (longing for)		hĭu	Al
wart	huðwart		hùut	D1L

4.3 Vowels

Vowels in GM and PT are:

	Not Front-rounded		t-rounded	Front-rou	unded	
	GM	Front	Back	Front	Back	
———— High		i		y,ü	u	
		e æ,ä,ε		Ö,ø	O	
Low			a		ɔ,å,á	
High	TAI	i	i		u	
		e E	Э		o	
Low		 	a		Э	

A front-rounded vowel in GM is nearly always front-rounded in Tai and vice versa.

Arne Østmoe; "A Germanic-Tai Linguistic Puzzle". Sino-Platonic Papers, 64 (January 1995)

A final vowel in GM is usually lengthend in Tai, in combination with a dropping of the final consonant. The middle vowels e, and o, however, are not lengthened in the few cases where they occur.

In some North European languages the u and o are very high, higher than u/o in Tai. This may have had an impact on the resulting tone (see chp. 4.6).

The patterns for vowel change from GM to Tai could have been scrutinized in greater detail. Ackording to Dr. Chamberlain, the vowels in PT do not appear to be as well mapped as the consonants. In addition there has been a vowel evaluation from Tai-Kadai to Proto-Tai. More time consuming vowel analysis is left out at this stage, also because the study so far shows a satisfactory amount of conformity at large. See below:

A large part of the words follow Fang Kuei Li, (see cpt. 14 in his book)

GM	Thai/Kadai	PT	Siamese/Thai	Occurrences
i		i, i	i, ii, ii	19
u		u	u, uu	18
e		e	e	6
a		a	a, aa	69
a		ε	εε	11
u		o	o	10
o		Э	99	12

(As <u>within</u> the GM mainbranch there are many umlauts, regular though numerous. In our vowel study we have therefore used <u>GM roots</u> as the basis, and not roots identified only by an old language).

Other umlauts on vowels and diphtongs are presented below with examples:

GM	Thai	Gloss	GM	Thai/	PT	Siamese/	Occur-
				Kadai		<u>Thai</u>	ences
i	ia	noon	θ ing			thiâŋ	6
	call	skrik				rîak	
i	ia	brilliant	glim			l i âm	5
		sea monster	nik (wes)		ŋɨâk	
						·	
i	ua	wealthy	rīk			ruai	3

Arne Østmoe; "A Germanic-Tai Linguistic Puzzle". Sino-Platonic Papers, 64 (January 1995)

		room	timb		suam	
u	ua	together garden	rum tun	ui (15.4.1)	rûam sŭan	3
i	a, aa	shine bid farewell	skin lib		čh ǎ ai laa	12
ai	a,aa	late bald	sain flain		săai láan	5
e	a, aa	gird axe	gerd akwezi	a (14.10)	khâat khwăan	21
e	i, ii	thick tongs	θek gem	i ə(14.3.4)	thìi khiim	6
a	ia, ia	bark house	bark razn		phl i àk r i an	6
eu	ua, i a	cup animals	teuq deuz	uai (17.3) ue (15.4)	thûai tua	5
u	၁၁	lure hammer	lur kul		lôo khóon	11
a	99	indicate room	sag uranho		sòo hôoŋ	6

4.4 Final consonant

The final consonant system in PT consists of only two series:

Nasal	-m	-n	-ŋ
Stops	-p	-t	-k

Germanic endings are softened to these, or to vowels.

The final consonant never changes to a consonant of a different class in the transfer from GM to Tai. In the cases where it does not remain it is dropped or softened.

Arne Østmoe; "A Germanic-Tai Linguistic Puzzle". Sino-Platonic Papers, 64 (January 1995)

In nearly one third of the words it is dropped, usually compensated for by a lengthened vowel. Final clusters usually lose one letter, except final - η which is kept in Tai. - η also includes GM -lg, -lk, -rg, -rk, -nk. Final -n and -m remain in many words.

The regular softenings are:

Velars and laryngeals	-k, -h, -g,	to	i
Liquids	-r, -l	to	n
Labials	-w, -v, -f, -b, -p	to	u

In addition, -s and -z change to -n a few times, as does -t once or twice (as part of a lost -z?). The explanation may be a stage of development in between, with -rs, -rz, -rt.

The spelling of w and j is according to Li. When a Tai word occurs in the list with a final u, the reader should keep in mind that the u is a semi-vowel in Thai, written as a consonant ("w") but pronounced as an u in final position.

When a Tai word occurs with a final i, this is also a semi-vowel, written as -j in Thai. When forming part of a diphthong in Tai, the position of final -i in the list will depend of the preceding vowel length.

4.5 Tones

It is assumed that tones were taken up in Tai in stages over some hundreds of years, mainly in the first millenium B.C. But one does not know this for sure and when it took place. In Old Chinese tones were unknown. Chinese tones are first mentioned in the 5th century A. D. by Shen Yüeh (441-513) (Tsung-tung Chang, p. 3).

All the Tai/Kadai languages, supposed to have separated by 8-900 B. C., today have tones (Lakkia, Kam-Tai, Kam-Sui etc.)

The use of tones in Tai/Kadai might have started in the second millenium B.C.

Speaking of tone classification, one must be aware of whether the tones under discussion are the tones in Thai, in another Tai dialect, or the tones of Proto-Tai (PT). The different Tai tone systems are, however, connected as the Proto-Tai tone code shows. The most important thing to note is that the PT tone system is fixed, but the actual tones differ from dialect to dialect. There is also not the same number of tones in all dialects. Thai has five (4 + even), but there are dialects with as many as nine tones.

The PT tone code consists of a number, 1 or 2, and a character, A, B, C or D (e.g., A1, B2, C1, ...). The initial consonant determines the tone code 1 or 2: Voiceless initial consonant gives 1, and voiced gives 2.

. The Proto-Tai Tone Code (chart) adapted from F K Li:

	Initial consonant		
	Voiceless: ptk	Voiced: b d g	
	h hm hl hr hn f	j j l	
	kh č čh	mnŋň	
	ph s th x?	rvwzY	Vowel length
even	Al	A2	
low (`)	B1, DIS		short
	B1, DIL		long
falling (^)	C1	B2	short
	C1	B2, D2L	long
high (´)		C2, D2S	short
		C2	long
rising (˙)	A 1		

4.6 Tone character system

When the final consonant is a stop, tone class will be D for all vowels. Class D is further divided into two: DS and DL according to vowel length, short or long. According to F.K. Li, the D class occurs only in a certain type of syllable, in which the distinction of tones may be said to be neutralised (Li, chapter 2.2).

Then what about the classes A, B and C?

Let us quote Fang Kuei Li: A Handbook of Comparative Tai, chapter 2.1:

"It is not known how the tone system originated in the proto-language, although it has been suggested that the system might have evolved, for instance, from the dropping of certain final consonants. (Karlgren, Haudricourt).

If such a hypothesis is tenable, it must refer to a stage of the language prior to Proto-Tai, and we are not yet ready to specify in detail the phonological system of such an early stage."

But with the findings of this study we might be close to that, because it introduces such a proto-language--Germanic.

Arne Østmoe; "A Germanic-Tai Linguistic Puzzle". Sino-Platonic Papers, 64 (January 1995)

The combination of vowel type and final consonant type (both in GM) seems to have determined the tone of words with A, B or C tone character:

The A-tone:

Two distinct word groups have A-tone:

- The GM roots with relatively low vowels $(a, \varepsilon, e, \sigma)$ and voiced nasal final consonants (m, n, l, r).
- The GM roots with higher vowels (i, \ddot{u}, u, o) and final stop consonants (p, t, k, b, d, g) or other consonants different from l, m, n, r.

A third group also has A-tone: words with final -ŋ. However, -ŋ words occur just as frequently with classes B and C, and possible rules governing tone class for -ŋ words are not found.

The B and C-tone

As for tone classes B and C, they must cover the vowel/final consonant combinations not grouped under tone class A, for B C then being low vowel + p, t, k, etc. and high vowel + l, m, n, r-.

A review of the tone character system. See the following chart:

		Low vowel	High vowel
	Group	1	4
Final			
consonant		A-tone	B or C tone
-l, -m, -n, -r			
	Group	3	2
"Other"			
final		B or C tone	A-tone
consonant			

For examples, see below.

Group 1, A-tone:

smell bad	smel	měn	4.6.14 (Number as in Li)
sweet	hwann	wǎan	4.10.4

Group 2, A-tone:

shadow	skuw	ŋau	10.4.9
buffalo	kwik	khwaai	12.6.1

Group 3, B or C tone:

slant	skaif	cháai	9.5.4
stick	stab	tháu	6.3.13

Group 4, B or C tone:

lure	lur	lô၁	8.1.17	
brilliant	glim	l i âm	8.2.34	

When the vowel is a diphthong the first vowel decides for the tone.

Some additional notes:

A few words might seem to show irregularity in vowel/tone correspondence, e.g.:

GM *tun*-(garden), T *sŭan*, see 9.1.40, where the high, front-rounded *u* should give B- or C-tone. The A-tone may stem from a diphthong *au* (cfr HG *Zaun*):

- Sometimes the GM final consonant does not quite correspond to the resulting tone in Tai, this phenomenon might depend on when a change took place.
- It seems that the introduction of tones serves the purpose of tellling the listener what kind of consonant the speaker has left out or softened. One cannot tell which one -- the tonal system is not that advanced -- but can tell what kind of consonant has been dropped. This information may even be sufficient, as there are not so many options for each pair of vowel + final consonant. When the people of Southern China adapted the GM words and wanted to replace their ugly sounds with tones, they presumably used the following "Directions for Use":

Arne Østmoe; "A Germanic-Tai Linguistic Puzzle". Sino-Platonic Papers, 64 (January 1995)

GM low vowel + l, m, n, r gives A-tone GM high vowel + other consonant gives A-tone

GM low vowel + other consonant gives B or C-tone GM high vowel + l, m, n, r gives B or C-tone.

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6. ABBREVIATIONS

ch changed
DA Danish
dial dialect
DU Dutch
E English

EGM East Germanic

f from

GM Germanic GOT Gothic

HG High GermanIE Indo-European

ICEL Icelandic
Lch Lungchow
LG Low German

MDA Older New Danish

ME Mid English

MHG Mid High German
MLG Mid Low German
MN Mid Norwegian
N Norwegian

NGM North Germanic

n noun

ODA Old Danish
OE Old English

OHG Old High German

ON Old Norse
OS Old Saxon
OSW Old Swedish
PT Proto-Tai
rel related
SW Swedish

T Tai

TH Thai

ts the same

v verb

WGM West Germanic

7. THE MATERIAL

(for explanatory notes, see last page)

				t			4.1
8	GOT	sp	i	n	IE spenu-		
turn around	B1	p					Nie 407
spin v		p	à	n	pan	pan	
X1	GOT	sp	ei	w	IE (s)p(h)ieu	ı-(vomit)	
be sick	B1	p			()[()	` ,	Nie 411
			ùai				b)
							4.2
1	WGM	sp	a	lt	IE speltos		
split, hew	B1	ph					Nie 404-5, 408
v		ph	àa		-	paa	
		ı	1	ı			
9 ·	MLG	pl	a	gge			(beat) MLG palte
cloth,	C 1	ph			(clothing)Fa	1599, 601	Vri 425
clothing		ph	âa			pii B2	
				1			4.3
1		b	e	r	IE bher-		
carry, take	A2	b					Nie 77
along		ph	aa		•	paa C2	
10		ы	ā		(blowing) IE	a bbla	Nie 58
10	Dac		a	st	(blowling) IE	one -	INIC 36
blow (wind)	D2S	b				, DIG	
V		ph	á	t	-	pat DIS	
14		ь	e	w	(build,grow)	E big IE bheu-(grow,increase)
elder	B2	b	i		14.3.2		Hov 85-6,
siebling		ph	îi		pii	piiC2	Pok 146,149 b)

22	ON	ь	u	nki	(stewed shipload) ODA bunk	ke (bunch)
bunch,	A2	ł			IE bhongh-(tight etc)	Pok 128
bundle		ph	ua	ŋ	puuŋ -	
X1		b	u	ու	IE bhudh-m (e)n	
floor	C2	ь				Pok 174
		ph	îi	n		
						4.4
7	[ga]	b	uw	an	(dwell) ON byŕ(village) IE bl	กนิ-
village	В1	?b		}		Nie 75,58
C		b	âa	n	baan maan	
		•		•		
20	[]	b	i	l t	(bite) IE bheid	Nie 51
fish hook	DIS	b ?b				
		b	è	l t	bit -	
		- 1		1		
26	MLG	[] br	ō	k	OHG bruoh (swamp) IE mer	g - (tear, break) f erosion
water reced-	D1S	?b		ļ	by receding water	Pok 740
es, dry land		b	ò	k	buk mok	
		-		-		
28	OHG	ob	a	n	(above) IE upó - (on)	
above, sky	A 1	?b	o		14.8.1	Nie 317,313
·		b	o	n	- m i n	
		Ü		•		
29	[ga]	ь	o	0 1	IE bhō - tlo -	
place, site	B1	?b				Nie 60
		ь	òο	n	- moon	
		- ,				
33	[ga]	bl	u	nd	(blind) Ib hlendh-	Nie 55,57
blind	D1L	?b			(James) to invited	- 120 00,0 /
-IIII						
OHILL		117		L .		

							4.5
1		m	a	rh	IE marko		
horse	C2	m		1	Proto Kam Su	i mar (Edm& S	olnit P.213)
		m	áa		maa?	maa	Nie 293
2		quem	ja	n	GOT qiman O	N koma IE gue	m-Nie 233
come v	A2	m	a		14.10		Pok 464
		m	aa		maa	maa A1 (indica	ates hm-, que-)
5		m	a	n	(man) IE manı	u-s OHG man (one)
he, it	A2	m		l	,		Nie 379
		m	a	n	mɨn	-	
14		m	a	qwir	NGM ma	wiR (young wo	oman)
wife	A2	m		1			Nie 294,296
		m	ia		-	-	b)
15		m (ai	lı	(cut) IE mai-d-	-	Pok 697
knife	D2L	m	iə		14.3.4		Nie 282
		m	ĩi	t	-	mit D2S	
17	ON	m	0	ndull	I HG Mandel (1	round p.o wood) IE menth-(rotate)
round, adj	A2	m	u i		14.8.1	ound pro wood	Pok 732
,		m	0	n	mɨn	ncm	
18	MLG	m	o	tte	(moth) IF mel-	(meal)	
	D2S	i	U	lic	(moth) IE mel-	-(Incar)	Pok 717
ant	D23	m	á		mit	mat	
		m	ó	Į t	m i t	tcm	Oxf 659
19	MLG	m	o	tte	(moth) IE mel-	-(meal)	
termite	D2L	m		l			Pok 717
weevil		m	ŝο	t	-	-	Oxf 659

Arne Østmoe; "A Germanic-Tai Linguistic Puzzle". Sino-Platonic Papers, 64 (January 1995)

X1		m	u	rθa (dead) IE mor-to-m Nie 288
die v	D2L	m		
(lose life)		m	ĵο	t
				1
X2		m	e	rkwia DA,NO neutr mörkt IE mer (ə) gu-
dark	D2L	m		Nie 295
		m	ĩi	t
				1
X3	OE	m	e	θig MLG müdich (feel stiff) GM moθion
feel stiff	B2	m		(effort, pains) IE mod- Nie 294
V		m	iâ	li
		1		ı
X4		m	a	niqa (many) IE mon (e)gh-
some	A2	m		Nie 279
		m	a	ŋ
		ı		4.5.1
1		m	ai	-wiðu, m(ai)wið IE moi-uidhu-
tree, wood	C2	mw	əi	16.1 Pok 709
		m	ái	mai? mai Nie488
		.I		1
4	OHG n	- 1		ng- mu-fi IE mon-tā (hand) GM finger (finger)
hand	A2	mw	i	14.4.2 Nie 118,292
		m	ä	m ii f i ŋ
_		_, _1		le ov (12 or -1/)
5	<i>C</i> CC	mēl-t	i	ð ON mál-tið GM mēl (meal, meassure) tið (time) IE mē-
clf,f meals	C2	mw	,.	
		m	Ĥ	- f ii Nie 294,451

							4.6
2	[ga]	m	a	t	(wet, succulen	t) IE mad-	
soak,	BI	hm					Pok 694-5
pickle v		m	àa		-	maa	Nie 277
		ī					
6	[ga]	m	a	rk	IE markō -		
mark v	A1	hm					Nie 293
		m	ăа	i	-	maai	
				ı			
7	[ab]	ga-m	a	k	(off-spoused)	OHG gimahho	(spouse) IE mag-(knead)
widow	C 1	hm	ai		16.5		Pok 696
widower		m	âa	i	maai	maai B1	
		ı		ı			
14		sm	e	1	(smell) IE sme	l-(burn slowly)
smell bad	A1	hm					Pok 969
stink v		m	ě	n			
		1		ł			
19	GOT	ga-m	ō	t	· -	nission to) IE	mēd-(doctor)med-(meassure)
sorcerer,	A1	hm	၁		14.11		Pok 705-6
doctor		m	ŏο		moo	moo	
		ı		1			
20	MLG	sm	0	r	(to steam) ME	smorther (stea	
cooking pot	C1	hm			(burn slowly)		Pok 969
		m	ĵο	1	moo	moo	b)
		ı		1.			
23	MLG	sm	Ō	k		(vapour, smol	ke) IE (s) meug-
fog	DIL	hm	Э		14.11		Pok 971
		m	ò၁	k	mook	mook	
22				1	. I'	, ***	() 1
22	D10	sm	eu	q	(slip, creep, co	ver) smuq IE	•
cover, hide	D1S	hm				•	Nie 396
V		m	ò	k	-	mək	

24 dusty, gray, sad	OHG B1	[s] m hm m	o u i ò	rn n	(mourn) IE (s) mer- 14.8.1 min A2 mon	Pok 969
sau		111 (U	J **	mɨn A2 mən	
26	[ga]	m	ūhō	n	IE muk-	
cluster,	B1	hm				Pok 752
group		m	ùu	ĺ		Nie 27
			l	1		
X1	[ga]	m	a	t	(wet food) with damp IE mad-((damp)
damp	DIL	hm				Nie 277
		m	àa	t		Pok 694-5
		ı	l	1		
X2		ā∸m	Ō	tida	(leisure) OE æm(e) tig (empty)
empty	DIS	hm			IE med-(meassure)	Pok 706
		m	ò	t		
			i	ı		4.7
4	OE	f f	0	lm	IE peləmā (the flat hand)	
palm of	B 1	f				Pok 806
the hand		f	àa		phaa C1 -	
		ı		1		
10		f f	a	k	(case, enclosure) IE pak-(faster	
scabbard,	DIS	f				Pok 788
pod		f	à	k	- fak	
		ı	1]		
14	N	f	e	rgje	(bury under stones) GM fergur	nio (rock,mountain)
bury v	Al	f			IE perk-	Pok 822
		f	ă	ŋ	phaŋ -	Hov 160
0.4		ا ۽		l	,	,
24		f	u	rs	(water-gush, falling water) IE	pers-(spurt)
•					1101	371 100
rain	Al	f f	u i o	n	14.8.1 phin hin	Nie 138

X1 sticky	DIL	f f f	a li	st	(stick to) IE pasto-		Nie 115
X2	N	f	jo	n	(dust, particle) ON	fjuka(to dus	t) IE pu-(blow)
dust	B1	f			GM probl fu-n		Pok 847
		f	ù	n			
		,	1				4.8
2		f	eu	r	IE peuōr - 16.3 fai		
fire	A2	v	εi		16.3		Nie 145
		f	ai		fai	fii	Pok 828
		ı	1				
3	WGM	f	a	k	IE pāg- faak		
side	D2L	v					Nie 112
river bank	·	f	âa	k	faak	-	
		ı	l				
9		f	a	nh	(fang, tooth) IE par	nk- (catch)	
teeth	A2	v					Nie 114,148
		f	a	n	fan	-	Oxf 350
		1		1			
10	ON	f	é	naðr	(cattle, sheep etc)	IE pen-(food	i)
deer,	A2	v		Ì			Pok 807
kind of		f	aa	n	-	faan	Hov 158
		ı	1	1			
18		f	eu	r-wid	ðu IE peuōr-,ūidhı	ı	
fire-wood	A2	v					Nie 488
		f	ii	n	f₃n	fin	Oxf 1239-40
		1	ı				
X 1		f	a	ng	(catch, catch sound	i) IE pank-N	oppfange (hear)
hear v	A2	v		1			Nie 114,148
		f	a	ŋ			b)

X2	WGM	f	ai	m	foim IE poimno-	
scum	B2	v				Pok 1001
		f	âa			Oxf 404
						4.9
2	(s)	w	a	r	(speak) IE suer-	
say v	B2	w		!		Nie 435
		w	âa		vaa -	
fan		w	ī	b	(fan) IE ueip (to fan)	
(for air)	A2	w	i		14.3.2	Nie 494
		w	ii		vii pii	
		-		•	-	
8	(sk)	w	e	t	IE kuēt -	
bail, discard	D2S	w	е	l		Nie 383
water v		w	í	t	- vit	
				•		
X1		w	a	sk	(wash) or wat(s)-akon (use wa	ter)
throwing	D2s	w			IE uodor (water)	Nie 488,485,218
water in face v		w	á	k	, ,	
		•		•		
X2		w	a	b	(move to and fro, flap, quiver)	ON vafa (float in the air)
kite	B2	w			IE uebh-	Pok 1114-5
		w	âa	u		b)
				ļ		,
	· · · · · ·					4.10
1		sw	i	m	IE suem (swim), or ON sveif (
swim v	C1 i	nw				Pok 1042
		w	âa	i (na	ám) vaai -	Hov 712
		•		\	,	
2		kw	i	k	IE guig-	
shake,		hw				Nie 246
quake v		w	ă	li		

4 sweet	A1	hw hw	a a	nno	(edible plant w sweet taste) IE 14.10	kuondhnā- Nie 245
SWEEL	AI	w		n	vaan vaan	h)
		·				,
6	OE	sw	ĩ	fan	(to sweep) IE sueip-(swing etc	
comb	A1	hw	ei	j	16.2	Pok 1042
v,n		w	ĭi]	vii -	
7	OE	sāw	a	l _n	GM sējan IE sē (i)-	
sow v	B1	hw			J	Nie 445
		w	àa	n	vaan faan	
		1				
X1	[ga]	w	e	nj	IE uen-	
hope v	A1	hw				Pok 1146-7
		w	ă	ŋ		
X2		θw	e	r	(stir, slit) IE tuer-(turn)	and the first section of the section
slit v	B1	hw	C	*	(stir, siit) in tuoi (tuiri)	Nie 468
SAC V	21	w	È			110 100
						5.2
3		spr	ai	ð	(spread) IE sprei-d	
open, extend,	B1	pl				Nie 409
spread out v		pl	ài		- pii	
17		ь	a	_{rk}	b() rak IE bher-(to cut)	
bark	D1L	pl	u	''`	o() tak II oner-(to eat)	Nie 41
(on trees)		pl	ià	k	p ii k -	- 12- 7-2
		P-			r	

							5.3
2		br	e	k	IE bhreg-		
break v	D1L	pl	ε		14.9		Nie 70
		t	èε	k	pheek	teek	
		1					5.3
5	WGM	br	a	gna	(scull, brain) L	G bregenpan (f	forehead) IE mregh-m(n)ō
forehead	D1L	phr					Pok 750
	-	ph	àa	k	phjaak	pjaak	Oxf 109
					•		
7		br	e	nw	IE bhre-n-u		
burn v	A1	phr	əu		16.10		Nie 70
		ph	ău	ļ	-	pjau	
				,			
8 .		spr	i	ng	ODA sprakk f	sprang, sprækl	
split open,	D1L	phr					Nie 410
crack v		ph	èε	k	pheek	-	
				L			
							5.6
2	WGM	bl	a	nk	IE bhleg-		
whitish,	B1	?bl/r					Nie 55
white spotted		d	aà	ŋ	-	-	
		1		1			
4		bl	Ō	(s)-k	a IE bhlō-	(flower)	
flower	D1L	?bl/r					Nie 58
		d	òο	k	bjook	-	Pok 122
6		m	ē	n	(moon) IE mēn	(e)s	
moon	Al	?bl/r			·		Nie 296
month		d	ia	n	b ii n	n ii n	
		ı		1			
8	GOT	bil	ai	bjan	GM lib (re	main) IE leip	

dregs of wine	B 1	?bl/r	-		d ii -	Pok 670
				1		5.7
9		m	e	kila	IE meg(h)-	
much	D2L	ml/r				Nie 282
		m	âa	k		
		1				
3	[1	nit]-al	i	ska	(with love) IE al-(to grow, get	growing)
love	D2S	ml				Nie 106
cherish v		m	á	k, m	a-lák, rák	
						
		1	ı	i		5.8
2		sw	e	r-ða	sw() re-ða (sword) IE suer-	
sword	C2	vr				Nie 438
		phr	áa		pjaa? šaa	
_		. 1	ı	١.		
5		fr	0	daq	(early day) IE pro-(forward)	
tomorrow	D2L	fr			(burn)	Nie 141
		phr	ú	k	pjuk D2S šook D2L	
		l				
		1	1	ı		6.1
9		st	a	mp	IE stemb(h)-	Nie 415
pound in	A1	t				
a mortar v		t	a	m	- tam	
		1	. 1	1_		
24	WGM	str	i	k	IE ster-	
strike,	A1	t				Pok 1029
beat v		t	ii	l	- tiiA2	Oxf 1055
٥٠		1		۱.	1 77	
25		st	а	1	MLG stel (smth to stand on)	
foot	A 1	t l	iə	ı	14.3.4	Nie 420,417

		t	ii	n	-	tin	
29 hammer in, insert v	DIL	st t	u òo	k,	stauk, IE (s) teu-	g-	Nie 421,427
31 cook in water, boil v	OHG Cl		ou uo ô		(steam) IE dhem 14.8.2	tum B1	Pok 248 b)
32 collapse, fall v	WGM B1	t	u -	mel	(collapse, fall) IE	E dheu-(whirl) tom	Nie 465
33 mud, earth	AI	t t t	u o	mf m	IE domped-	-	Nie 456
35 tree trunk	C	st t	a ô	bna n	(a stem) ON stof	n(tree trunk, lo	og) IE stebh Nie 416 Hov 693
peck, nibble of fish	MLG DIL	t t t	u òo	te	ON toti (pointed IE dhē- toot		nta (?) (hollow, pointed obj) Nie 765,467 Pok 241
40 door	A1 prà -	d t	u uu	r	OHG turi IE dhu	ır- tuu	Nie 101
42 clf. f animals	Al	t	eu ue ua	Z	(animal) OHG ti 15.4 tuu	or, IE dheusó- tuu A2	Nie 99

45		st	e	k N stikke (hit sbdy w a ball) (kill) IE stig-
hit, bring	DIS	t		Nie 419
about v			-	tik tik
		,	1	1
X1		t,	ai	kn (sign) ON teikna (show w signs, decorate) IE doig
decorate,	B 1	t		Nie 450
draw up v		t	È	lη
		•	1	1
X3		st	a	nd-ison DA standse(stand against, stop) IE stā-
stand against,	C1,A1	t		Nie 415,326
stop v		t	âa	n, thaan -
				6,2
6		t	u	g ON taug, tog (line) IE deuk-(to pull)
line	A 1	th		Pok 221
		th	ěε	u teeu A2 teeu A2
7		θ	e	k- IE tegu
				wia Nie 469
thick, dense	B 1	th		Nie 469
		th	ĭi	thii tii B2
		1	1	1
14		[]t	eu	qa (utility article, tool) IE deuk-(to pull)
cup	C1	th	ua	i 17.3 Nie 472
		th	ûa	i thuui tuui C2 b)
		,		
15		st	u	wian IE st(h) āu-, vn-m cfr hafn/hamn, stofn/stom
flood	C1	th		Nie 428
		th	ûa	m thuum tum B2

18 wild		B1	st th th	u i à	r (hubbub) staurian (disturb) IE tuer- Nie 428 n th ii n th ii n B2
19 young male animal		ON,MLG D1S	t th th	i i	k (sheep, female dog) N tikla (young sheep, cow) 14.4.1 IE digh- (goat) Hov 742 k tik D2S tak D2S Pok 222
X1 noon		C1	θ th th	i iâ	ngas (time) time usul. affiliated to noon IE tenk- Nie 454
X2 wash, rub v		A1	θ th th	wa	h IE tuak Nie 456
X3 team up v		Al	t th th	au ia	m tau-ma or tauq-ma OE tēam IE deu-(two) or deuk-(pull) Nie 473 m
X4 clf. f ingots, bars etc		Cl	st th th	â	ng IE stengh- (bar) Nie 415
X5 woman (young)	N	ICEL A1	t th th	au əə	s MDA,SW tös (girl, maid) maybe f GM tus- (pull, shake, jerk) Nie 474 Hov 730

					6.3
3	θ	u	r	IE tū-	Nie 466
dare v	θ C2 d			IE tū-	Oxf 241
	th	áa		taa	
		,	,		
5	θ	е	gn	(free man, keeping land) IE tel	cnos
Tai people	A2 d	Ì	Ì	tai -	Oxf 1107
	th	a	i	tai -	b)
		ı	ı		
13	st	a	b	IE stebh	Nie 416
stick n	C2 d	1	ŀ	IE stebh tua? taŋ, tɨŋ (?)	
	mái-th	á	u	tua? taŋ, tɨŋ (?)	
		ı	١		
18		a	91	ODA stæth DA,N sted IE sta-	
place		1		t ii t ii	Nie 417
	th	ii	I	t u t u	
22	et	,,	12	IF (c) ten_a_	Nie 428
single,	D2L d	ľ	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	IL (s) tea-g-	1410 420
alone	DZL u	ا مُمَ	b	IE (s) teu-g- took took	
alone	tii	1 33	K	AOOL AOOL	
28	θ	l eu	la	(people) IE teuta-	
group	B2 d			(foolio) — seem	Nie 470
8	th	ua	iA2.	(people) IE teuta- B2 - tooi B2	
		•	,		
X1	WGM θ	u	rh	IE tuer- (frame)	
throughout,	B2 d		}		Oxf 1116
all	th	ûa		•	Pok 1101
X2	θ	е	g	ON θegar IE tek-	
then	B2 d				Vri 607,610
	th	âa			- <u></u>

		•				6.4
3	MLG	[] d	æ	s[ig]	dæsen (doze) ON dusa(be tra	inquil) IE dheues-
idle, doing	A 1	?d				Pok 270
nothing v		d	aa	i	daai n ii i	Vri 88,74
		Í		1		
4			ē	ðu	IE trēi-tu-	
thread	C1	?d				Nie 465
		d	âa	i	- naai	
5	m	oA - t	я	k	(get) IE dēg	
get v	C1		əi	4	16.1	Nie 287
8-1		d	â	i	dai nai	447,452
		•		•		
		,		1		
12	ON	[]dr	e	pa	(kill) IE dhreb- (crush)	Nie 95
extinguish	D1S	?d				
v		d	à	p	dap nap	
14	ON	[]d	í	l 13	(spot) ICEL (skin spot) IE dh	el-(to light)
white spot	BI	?d	1	''	(spot) ICEL (skill spot) IL dir	Vri 77
winte spot	DI.	ľ	èε	n		Pok 246
		- 1		1		
15		[]d	ai	1	(part) IE dəi-lo-	
border	A 1	?d		İ		Nie 87
boundary		d	33	n		
16		ا م	i	Ι.	mrt.	NY - 07
16	A 1			qi	IE tenk-	Nie 87
good	A1	?d d	(?)i ii		16.4	
		a J	11	I	dai nii	
20	[]	d	e	nt	(dint) IE dhen-(beat)	Pok 250
tap, snap	D1L	?d				
jerk v		d	ĭi	t	dit D1S -	

24	ON	[] d	á	mr	(taste) N dåm(taste, scent) IE	dhem-(vapour etc)
smell	ΑI	?d				Pok 248
		d	o	m		Hov 126
					•	
25		[]d	eu	n	MLG dūn(e)(swelling)IE tēu-,	ten
elevated,	A1	?d				Pok 1080-2
high land		d	၁၁	n		Pok 1066
				ı		
29	WGM	gad	u	r	OE gœdere [(to) gether] IE gl	hedh- ghodh-
with,	C1	?d	uəi		17.3.1	Oxf 1125,408
together with		d	ûai		duui nii	Pok 423
				ı		
31		h	ai	t	IE kāi-	Nie 176
hot	D1L	?d	ia		15.3.1	
		d	ià	t	d ii t naat	
						/ m
						6.5
5		n	ē	m	IE nem-	0.5 Nie 300
5 follow, lead	A2	n n	ē	m	IE nem-	
	A2		ē a	m m	IE nem nam	
follow, lead	A2	n				
follow, lead	A2 (der)	n	a ē			Nie 300
follow, lead take v		n n	a	m	- nam (it near) or ON θann(-un) hve	Nie 300
follow, lead take v	(der)	n n	a ē	m h	- nam $ (it \ near) \ or \ ON \ \theta ann(-un) \ hve $	Nie 300 IE an-oku-
follow, lead take v 14 this	(der)	n n n n	a ē ii	m h	- nam (it near) or ON θann(-un) hve 16.4 nai CI, nai? C2 nii C1	Nie 300 IE an-oku-
follow, lead take v 14 this	(der) C2	n n n	a ē ii	m h	- nam (it near) or ON θann(-un) hve 16.4 nai CI, nai? C2 nii C1 IE penkurós-	Nie 300 IE an-oku- Nie 88,306
follow, lead take v 14 this	(der)	n n n n	a ē ii îi	m h (ai)	- nam (it near) or ON θann(-un) hve 16.4 nai CI, nai? C2 nii C1 E penkurós- 16.16	Nie 300 IE an-oku-
follow, lead take v 14 this	(der) C2	n n n n	a ē ii îi qu	m h (ai)	- nam (it near) or ON θann(-un) hve 16.4 nai CI, nai? C2 nii C1 IE penkurós-	Nie 300 IE an-oku- Nie 88,306
follow, lead take v 14 this 15 finger	(der) C2	n n n n n n n n n n n n n n n n n n n	a de la	m h (ai)	nam (it near) or ON θann(-un) hve 16.4 nai CI, nai? C2 nii C1 IE penkurós- 16.16 niiu?	Nie 300 IE an-oku- Nie 88,306 Nie 118
follow, lead take v 14 this 15 finger	(der) C2 C2	n n n n n n an-	a de li de l	m h (ai)	- nam (it near) or ON θann(-un) hve 16.4 nai CI, nai? C2 nii C1 E penkurós- 16.16 niiu? - (sibling-young) IE an- iuunkó-	Nie 300 IE an-oku- Nie 88,306 Nie 118
follow, lead take v 14 this 15 finger	(der) C2	n n n n n n n n n n n n n n n n n n n	a ē ii îi qu iu îu ju	m h (ai)	nam (it near) or ON θann(-un) hve 16.4 nai CI, nai? C2 nii C1 IE penkurós- 16.16 niiu?	Nie 300 IE an-oku- Nie 88,306 Nie 118

23	ON	n	u	m(in	n) (taken away	the strength) II	E nem-(take)
soft, tender	B2	n					Lan 408
		n	û	m	-	num	Pok 763
26	ON	n	au	t	(cattle) GM (pro	perty) IE neut(e	enjoy, have)
meat,	C2	n	io		15.3.2		Nie 304,307
flesh		n	iá		n ii ?	nooB2	
				,			
X1		n	ē	h-	hēr (near-here)		Nie 306,180
here	B2	n			IE an-oku-kēi-	r	
		n	ĩi				
			ı 1	,			
X2		n	ēhw	ista	OHG nāhisto		
next	B2	n					Nie 307
		n	âa				Oxf 683
			, ,	1			
X3		n	ēh	θar	(near-there) IE a	an-oku-to-r-	
there	B2	n					Nie 306
		n	â	n			
			1	1			
X4		n	ēho	bar	(near-over) IE an	n-oku-upér-	
over there	C2	n					Nie 306,317
		n	ó0	n			
				ı			6.6
5		gr	eu	j	IE ghrū -(to shi	ne)	
morning	A1	hn		l			Nie 163
			-		nai	-	
			i	i			
15		kn	ī	p	IE gn-eibh-		
pinch v	D1L	hn					Nie 230
		n	H	р	nip D1S	-	

			_				7.2
2		t	ē	m	(conform to, sui	it) MLG temi	nelik (suitable)
full	A1	tl			N(fullfilled, full		
		t	е	m	tim	lim	Nie 450
		'		•			
5 OSW	MDA	tr	i	ne	(rise, get up, wa	alk) GM trad	(tread) IE dreu-
get up,	B1	tl					Nie 461-3
wake up v		t	ĭi	n	t i n	hin (?)	
-							
							7.3
1	GOT	t	a	r	ga-tarhjan(with	eye notify) II	E derh-(look)
eye	A1	tr	a		14.10		Pok 213
		t	aa		haa	taa	
			1				
2		str	eu	k	(go,leave,pass)	N stryke med	(pass away, die) IE st
die (lose life) v	A1	tr					Nie 425
		t	aa	i	haai	taai	b)
							7.4
1		θ	u	1	ON θola (be pa	atien) IE tel-	
wait v	C1	thl					Nie 474
		th	âa		-	šaa	
2 NGM		ar θ r	a	-ka	(plough-do) IE	arə-trom-	
plough v	A1	thl	əi		16.1		Nie 32
		th	ăi		thai	šai	
							7.5
9		θr	ei	f	ON θrifa (gras	p) w the han	d IE ter-
carry, hanging	CI	thr	iu		16.16		Pok 1071
f the hand		h	îu		thiiu	liiu	Hov 765

wooden trough as f pigs	ON A1	θr thr	ō -	(pig trough) IE treuk (of wood,	etc) Pok 1074
12 stone	A 1	st thr	ei	n IE stāi or OHG trennila (round	y obj) Nie 417
	***	h	ĭ	n hin hin	Pok 207
14 cook, boil	OHG A1	tr thr h	u ŭ	nkan GM drenk (put under water)	opposite fry, roast, bake Nie 93,94 b)
15 see v	[tar] A1	s thr h	e e ě	hwan (eye see) GOT tar (eye), IE o 14.6 n han (?) han	·
					7.6
3 drag, pull v	D2L	dr dl l	a âa	g IE dherāgh - k laak laak	Nie 92
7 sharpen v	MLG D2S	sl dl l	ī á	pen (sharpen) IE (s) leib-(smooth) p	Nie 390
8 small	D2S	[] l dl l	ē	k (of small height) IE lēgh-	Nie 256

10 drought, dry	C2	dr au dl ε l έε	g	14.9	oistress, need) IE trenk-Oxf 296 Seen Nie459
12 nail, fingernail	D2S	kl ē dl l é	w p	(claw, nail) IE glēuā	i - Nie 225
13 lick v	A2	sl i dl ie l ia	k	IE leigh- 15.2 lii	Nie 390 lii
14 wheel, roll v	hwelb C2	-h we	lb		vēl hwula IE kue kuelo Nie 185,194 uu
15 skin, peel v	D2L	fl a dl l ŝo	h k	ON flá, IE plek-(to look lo	skin) Nie 126 ook
16 wind (blow)	A2	st u dl uo	m	14.8.2	athesis of straum (stream) IE srou-mo- Nie 422,426
21 stroke, pat, caress v	D2L	sl u dl l 1 ûu	p p	(glide, stroke) IE sle	eub (h)- Pok 963 lup D2S
X1 bald	C2	fl ai dl l áa		IE plēi	Nie 122

		,				7.7
2		roθr	a]	IE erə -	
boat	A2	dr	io	ĺ	15.3.2	Vri 450
		r	i a		l ii luu	Nie 348
				<u> </u>		
			1			7.8
5	GOT	st	aí	rno	IE ster-nā	
star	A1	?dl/r	au	į	16.14	Nie 421
		d	aa	u	daau naau	
		1	1			
7	d (aq)			hsa	(day light) IE āgher- IE leu	ık-
sunlight	D1L	? dl/r	iε	ŀ	14.9.1	Nie 84,271
		d	èε	t	deet -	
		1	ì			
11 -		kn	u	k	MLG knok IE gn-eu	-g-
bone	D1L	?dl/r	uo		14.5.4	Nie 230
		krà-d	ùu	k	duk DIS nook	
			ì	ı		
16	h(wa) t-l	ī	k	(what like) IE kuo-d, lēig -	
which, any	A1	?dl/r		ļ		Nie 191,261
		d	a	i	nai A1, A2 -	
				<u></u>		
		ı	ì	ı		7.9
1		n	e	bla	IE nebh-(water, humidity) F	Pehlavi nam (humidity)
water	C2	nl/r	i			Pok 315-6
		n	á	m	nam? lam	
		1	ı	1		
3		fl	u	q-la	IE plō-	
bird	D2S	nl/r	0		14.8	Nie 143
		n	ó	k	nuk lok	

							8.1
1		1	ĭ	b	(leave) IE lei	p-	
bid farewell,	A2	1					Pok 670
leave		1	aa		-	lii	
_		. 1		1.	IE leip-		
7	4.0	1	i	bar	IE leip-		N. 0.0
pork fat, grease	A2					1	Nie 260
		i	-	l	laau	laau	
17		1	u	r -	IE leu-		
lure, deceive	B2	1			IE leu-		Nie 269
v		1	ôο		-	-	
				r			
26	OS	well	i	gan	N velge, GM	I waljan (choos	e) rel to will IE uel-
choose,	D2L	1					Nie 504,495
select v		1	iâ	k	l ii k	lee B2 (?	e) rel to will IE uel- Nie 504,495
		1		١			/
27	Day	bl	Ō	θa,b.	lēθa	(blood) IE bhe	elē- (to well, gush)
blood	D2L	1	ie		15.3	***.	lē- (to well, gush) Nie 56
		1	iâ	 t	l ii t	l ii t	Pok 122
29		gl	au	l m	IE ghloumos	.	
forget v	A2	1	iu		14.4.4		Nie 158
		1	ij	m	lum	lum	
		•					
30		1	e	b	IE leibh-		Nie 264,260
alive,	C2	1					
living		l	-		-	lii	
V1		, 1		nd	IE lendh-		
X1	A 2	1	a	l liu	ie ienan-		Nie 255
lawn,	A2	1					1416 777
grounds		1	aa	n			

X2		1	u	q	IE leuk-		
flaming	D2S	1		ł			Nie 267
		I	ú	k			
			<u></u>	<u> </u>			8.2
1		[ga] l	a	t	(with slowness) l	E ləd	
late	C1	[ga] l hl		1			Nie 253
		1	âa		(with slowness) l	-	
2		nsa a	_	1.	(balow) IE lagh		
underneath	C1	loij i hl	6	4	(below) IE -lēgh-		Nie 256
below	Ci	111	âa		_	laa	1416 250
ociow		1	ı aa	1		ıuu	
3		likal	i	k	IE leig-		
many	A1	hl	ai	ł	16.5 laai		Nie 261
		1	ăa	i	laai 1	laai	
9		onil		l.,	TC on		
grandchild,	A1	anil hl	a	11	IE an-		Nie 29
nephew	Al	1	ăa	n	laan 1	laan	NIC 29
перпем		1	aa	1 11	iaan		
10		hl	е	nk	(bend) OHG hlar	aca (hip) IE kl	eng-ruggia and
back	A 1	hl	Э		14.7 bak also me	ans "bend"	Nie 37,273, 353
behind		hl l	ă	ŋ	laŋ l	aŋ	b)
11		,		1	TC 1-1		
11	Dic	sl	a	p	IE lēb		N. 200
close one's	DIS	hl	À		lam 1	lo	Nie 389
eyes v		1	à	l p	lap l	ap	
13	OHG	kl	io	ban	IE gleubh (shear	w a knife, cut	off, to splinter)
sharpen w	A1	hl			- ,		Pok 401
a knife v		1	ă	u	-	lau	

17 play v	C 1	ga-l hl l	î	k-sa	m MLG ge	lich-sam (as if)	galīk (like) IE lēig- Pok 262 etc.
19 incline sharply abrupt, steep	B1	br hl	i -	nk	IE bhren-g-	liŋ	Nie 65
25 mud, sink in mud v	[ga] B1	1 hl 1	ō	m m	(clay, earth) N lo	oms (clay) IE lo	oi-mo-(wet earth) Pok 662
30 loose, too large	[] A1	hl	eu ŭa	m m	ON luma(make/	loose) OHG (in	ndul-gent) IE lem-(weak) Pok 674
33 be left over, surplus	[] A1	l hl l	ia	b	(left over) SW lä	imna (ts) IE lei l ii	p- (leave etc) Nie 260 Pok 670
34 brilliant shining	C1	gl hl l	i i â	m m	IE ghlei-	_	Nie 158
X1 glance	Dil	gl hl l	i i à	p p	IE ghlei-		Nie 158
X2 overflow v	A 1	fl hl lón-l	au ăa	m m	(flood) IE pleu-	(flow)	Hov 170 Nie 124 Vir 129

X3 shoulder	B1	agsl ā - hl l ài	(shoulder) IE ages-(axis)	Nie 25
X4 lure, deceive v	[] D1L	l o k hl l òo k	IE leug-(to tell a lie)	Nie 265
X5 bear, support v	A1	hl eu n hl u n ŭ n		E kel- (beat) Nie 268 Pok 546
X6 wedge	A1	kl i mp hl i m	(clump) IE geleb(h)-(press)	Nie 224
			;	8.3
8 bran	A2	h a m r ə r a m	(cover) ON hams(bran) IE kem 14.7	Nie 173
17 strength, force	A2	str a ng r ε r r εε η	IE strenk- 14.9 leeŋ leeŋ	Nie 423
18 quick, fast	A2	r i p r eu		re) Hov 573 Pok 935

20		(sk) r	ĭ	k	(shout) IE (s) (k) erei-g-	
call v	D2L	r			N	Nie 377
		r	iâ	k		
24		1			() TF	
24	D0	r	u	m	(room) IE reuə- (open)	T' 050
together,	B2	r	_			Nie 350
join together		r	ûa	m	luum -	
30		r	au	t	IE reud-	
pull, detach	D2L	r				ok 869
or strip off grains	v	r	ûu	t	- loot	
31		kn	aw		IE gnō-	
know v	C2	r	uo			Pok 376
MIOW V	02	r	úu		- l uu? loo	OR 370
		- 1	,	l	(
33		r	aho		IE rek	
fence	C2	r			P	ok 863
hedge		r	úa			
37		r	a	zna	IE re-s- (rest)	
house	A2	r	ia			Nie 339
		r	ia	n	l ii n laan	
••	00	1		١.		
38	OHG	r	ou	b	ON rauf (hole) rel to GM raub (br	_
hole	A2	r				/ri 435
		r	uu		tuu luuA1 N	Nie 356,349
X 1		ı	ai	z	IE les-(gather)	
learn v	A2	r				Nie 273
		r	ia	n		

Arne Østmoe; "A Germanic-Tai Linguistic Puzzle". Sino-Platonic Papers, 64 (January 1995)

X10		spr u	l t	IE spreu-d-	
sprinkle,	D2S	r			Nie 410
water plants v		r ć	t		
					8.4
16		ur a	nho	ON vrá (corner in a room,	
			İ	space) IE urengh-	
room, space,	C 1	hr			Pok 1155
compartment		h ŝ	ŋ	- loon	
			1		9.1
4		s a	in	IE sē(i)-	
late	A1	s			Nie 364
		s ă	a i	-l aai kwaai A2(?)	
		•	1		
13	ON	s é	r	(oneself, as by oneself/itself) (
back of blade	A1	s			Nie 442
(as by itself)		s ă	n	-[an -	Vri 470
			1		
17	GOT	s a		(pillar) ON súla, probl re to	
pillar	Al	s əi	l l	16.10	Nie 432
		s ăı	ı	-[au -[au	
		1	1		
25		t i	nd		
rib, tooth of	C1	s			Nie 453
a comb, etc.		s i	1	- - {εε	
		ı	ı		
31		s a	q	IE sokue-(say)	1. 000
indicate,	B1	s			Nie 898
slender, tell v		s à)	- - 00	

39 you (pl.)	Al	θ s s	u u uu		(you, sing.) IE tū 14.5.2 - - {uu	Nie 96
40		t	ū	ł	HG Zaun	
garden	A 1	S	ui		15.4.2	Nie 466
		s	ŭa	n	-[uan -[ii n	
48		t	i	mb	OHG zimbar (timber, room) IE	dem-(build)
room, com-	C 1	S				Nie 473
partment		s	ûa	m	-[uum -	
X1	A 1	S	i	ng	(sing) IE senguh-	Ni: 0 441
pronounce,	A 1	S	••			Nie 441
voice		s	iă	ŋ		
X2		s	i-	dhlo	ON, OHG seil(rope) IE sē(i)-(t	o bind)
rope, clf.f	C 1	s		}		Vri 468
lines		s	ê	n		Pok 892
X3		s	ū	p	IE seub-	
suck v	D1L	s				Nie 433
		s	ùu	р		
V5		_		l _()	COT (man) II	L
X5 sad	C1	S	u	i (qo)	GOT saurga (sorrow) IE suerg	n- Pok 1051
sau	CI	S S	âu			FUK 1031
		_ 3	au	<u> </u>		
		ı	ı			9.2
3	[]	s	a	nda	IE samtho-	
sand	A2	Z				Nie 360
		s	aa	i	-l aai -l aai	

tasteless		č i	t	- šutD1S	
19 master	C1	h au č iəu č âu		a (head, master) IE kap-ut (he 16.3 ĉau tuu	ad) Nie 187
X1 tickle v	MLG C1	k e č č č ii	tel	IE geid-(to tickle)	Pok 356
X2 mirror	DIS	sk uw č č à	-qa k	GOT skugg-wa, ON skugg-sjá qa(like) IE (s) keu-(cover)	i GM skuw (shadow)- Pok 951
X2 I,me	AI	s e čh čh ă	lba n	ON sjalfr (self) IE se-lo-	9.4 Nie 363
X3 shine	A1	sk 1 čh čh ăa	n i	GOT skein IE skāi-	Nie 374
3 be so v	B2	sk e j ei/ čh âi	h εi	(happen) IE (s)kek-(jump) 16.8 čii šii	9.5 Nie 371 b]
4 slant v	C2	sk a j čh áa		IE skoipo šaaiC1	Nie 386

5		sk	a	wal	IE (s) keū-(cov	er)		
veranda	A2	j		j			Pok 951	
porch		čh	aa	n	čaan	šaan		
		·	_					
9		sk	a	lk	(servant) IE (s)	kel-(run)		
skillful,	B2	j					Oxf 621	
artisan		čh	âa	ŋ	č ii ŋ	šaaŋ	Nie 369	b)
		7						
12	ICEL	k	ei	mur	(dis-taste) N ke	im(taste,after-tas	ste) IE gem-	(be satiated)
taste v	A2	j					Hov 324	
		čh	i	m	čim	šim	Pok 368	
			1					
26		k	e	rl	(man) IE ger-(g	get older)		
male, men	A2	j					Nie 216	
		čh	aa	i	čaai	-[aai		
X1		sk	a	1	(peel) skaljan(s	eparate) IE (s)ke	el-(cut)	
trash	A2	j				-	Nie 369,37	73
		čh	aa	n				
			ı					
X2		sk	a	mp	MLG schamfer	en(sore, hurt) I	E (s) kamb-	-(bend)
sore, hurt v	C2	ĭ					Nie 370,38	32
		čh	á	m				
		ı	ł					
X3		sk	a	rja	(shear) MLG so	chōre(shore) E	dial skerry	
coast	A2	j	1		(rocky coast) II	E (s)ker- (shear)		
		čh	aa	i			Nie 385	
			1				9.6	
3		ne-	a	nθi-c	qin IE ne-anta	a-kuene-(not yet	•	
still,	A2	ň					Nie 26,107	7
not yet		j	a	ŋ	-	-		

14		muwj	ō	(n)[l	k-] N dial m	ehunk IE mu-((onom ?)
mosquito	A2	ň					Nie 292
		j	u	ŋ	juŋ	juŋ	
	_	-					
							9.7
1		gr	a	s	IE ghrōs-		
grass	C 1	hň	ia	i	14.10.1		Nie 164
		j	âa		jaa	jiiC1,jaaA1	
		_					
4		h	au	na	IE kau-		
mock,	A 1	hň					Nie 200
ridicule v		j	ă	n	-	jenB1	
8		kerl	ĭ	n	ON kerling		
woman	A 1	hň					Nie 207,216,248
		j	ĭ	ŋ	niŋ A1,A2	2	
							9.8
1		g	a	won	OE giem(to co	ver) IE ghou(ē) (take care of)
cover, calk	A2	g j					Nie 154
v		j	aa		jaa	jii	
				_			
5		g	a	ng	(walk) N gjeng	gle(walk step by	y step unsteadily)
take a step,	B2	j			IE ghengh-		Nie 151
step v		j	âa	ŋ	jaŋ? C2(?)	<u>-</u>	Hov 224
		_		_			
8		habj	a	}	(lift up) IE ghe	er-	
raise	A2	j					Nie 313,198
lift up v		j	၁၁		joo	jooA1	

				_	9.9
2		ne-ei-g	i		(not, not at any time) IE ne-aiu-kuene(not time at all)
prohibitive,	B 1	?j			(not, not at any time) IE ne-aiu-kuene(not time at all) Nie 105
completive parti	icle	j	àa		jaa jii
8		h ?j	ai	m	(home) ODA hiem, visit is to go to sbdy's home,
visit v	A 1	?j		l	IE kei-(lie down) Nie 184 - jaamA1
		أز	îa	mC1	- jaamA1
		. 1		1	
13		h	u	S	(house) ON hju(family) hiwa IE kūso- Nie 184
home,	C1	?j			Nie 184
house		j	âu	l	-
		. 1		١	(1) 77 1 0 1 1 ()
14		k	a	10	(cold) IE gel- ON kœla (to cool) Vri 342
cool, fresh	A1	?j			Vri 342
		jĮ	e	n	Nie 233
16	ON	hi l	0	۱.,	(married couple) his (he at) GM has (home house)
	B1	2;	"	111	(married couple) hjá (be at) GM hus (home, house) 14.5.2 IE kusō- Hov 280
stay, be at	D1	1J			
		71	ùu	ŀ	•
X1		$_{\mathbf{k}}$	e	(n)k	MLG ki(n)k (a small bend, kink)IE geng-(clump) Pok 379
kink, pinch	D1S	7i		\/	Pok 379
v	210	, , , , , , , , , , , , , , , , , , ,	ì	k	TOTAL DIST
•		31	•	ı	
X2	N	kj	e	ske	(to want, have a mind to) ON kerski (joy)
want v	D1L	?ј			IE ger- (grow, arouse) Hov 374
		j	àa	k	Pok 390

							10.1
2		k	eu	k	(little clump)	keuk-lin (chicken) IE gëu-(bend)
chicken	B1	k	əi		16.1		Nie 247
		k	ài		kai	kai	
6	N	k	a	mse	(hold and form	n a ball of dough)	IE gem-(press together)
hold in the	A1	k		i			Hov 334
hand v		k	a	m	kam	kam	Pok 368
-	W.C. 4	}		۱,	d a Samma i	. 11 7 11	
7	WGM	g k	a	aur	(-gether) IE g	nean-,gnoan-	0 61105 400
together,		K			kan		Oxf 1125,408
mutual		k	a	n	kan	-	Pok 423
17	ME	_k	e	tte	OF cyttan		
cut v	14117	k k	e	1	OL Cyttun		Oxf 235
cut v		^			OE cyttan	kaat	OXI 233
		ı	_	l	Kaat	Kaat	
24		g	a	b	(catch, take) I	E ghabh-(ts) OHG	kepi(wealth, gathered)
pick up,	D1S	g k					Pok 408
collect		k	è	p	(catch, take) I	cip	
				ı			
27	WGM	k	e	rf	(to carve, cut)	IE gerbh-	
cut w sickle,	B1	k	iəu	(?)	17.2		Nie 217
reap v		k	ià	u	-	čiiu	
20		, 1		١,,	, ,	AGIGUET (C)	707 171 77
30			e	fal	(gnaw, chew)	MHG kifelen (ts)	IE geb(h)- (eat)
eat v	A1	k					Pok 382
		k	i	n	kin	k i n	
31		gr	i	l n-da	(gane-like br	anching) grin(gap	e) ON greinn
branch	В1	k	•		(branch) IE g		Nie 162,204
		k	ì	ŋ	kin	- (gupe)	112 1025201
		**		1.1	נונא		

38	ODA	(i)g	00	r	GM gjez IE ghies	s-(yesterday, re	ecent past)
first,	B1	k					Nie 170
beforehand		k	င်င်	n	koon	koon	Oxf 1250
			,	1			
42	N	g	0	p	(frog egg, smth w	v a gape) GM g	gap (gape) IE ghēp-
frog	D1S	k	0		14.8		Nie 150
		k	ò	p	kup	kəp	Hov 234
4.5		<i>a</i> 1	1		TIC		
45		ék	a	n	IE egom-		
I, me	A1	k	iəu		16.13 note	_	Nie 211
		k	uu		kau 1	kuu	
X2		sk	òu	ha	IE skeu-(cover)		
	DH		ou	па	IL SKeu-(Cover)		NU - 275
shoe	D1L	k	٠,	1			Nie 375
		k	ià	k			
X3		g	eu	t	ON gjóta (throw	a child) IE gh	neud-
give birth	D1L	k			or goth (into	u 01u) 22 g.	Nie 167
V	DIL	k	èә	t			Pok 448
•		v. l	99	·			I OK ++0
X4		k	wi	k	(quick) MLG kec	, MDA kœk (b	rave, clever) IE guig-
skillful	B1	k				·	Nie 248,246
		k	è	ŋ			
		•	•				
X5		g	a	u	ODA gaa (walk)	IE ghē-	
step, go	C 1	k			-	_	Nie 169
forward v		k	âa	u			
			1	1			10.2
1	WGM	sk	i	nk	(thigh) IE (s)keng	g-(limp)	
thigh, leg	A 1	kh					Nie 374
		kh	ăa		khaa	kaa	

10		kn	u	f	(horn) ON knyfill(small ho	rn) IE gen-(press)
horn	A1	kh				Hov 359
		kh	ă	u	- kau	Vri 322,Pok 371
24		sk	u	1	skwal IE (s)kuel-	
water	B1	kh	u]	14.5.1	Nie 383
muddy		kh	ù	n	- hun(?)	
		ı		ı		
X1		sk	е	r	(shear) IE (s)ker-	
write v	A1	kh				Nie 385
		kh	iǎ	n		
		ı				
X2	ON	sk	ei	ðang	r GM probl skaið-gang-,	skaið (separate)
race	B 1	kh		ļ	gang (walk, run) IE skēit-	ghengh-
		kh	έε	ŋ		Pok 921,438
						10.2
						10.3
12		[]g	a	qin	(against, etc.) ODA igen(clo	
12 choke v	C2	[]g	a	qin	(against, etc.) ODA igen(clo	
	C2	[]g g kh		qin n	(against, etc.) ODA igen(clo	
	C2	[]g g kh	a èe		(against, etc.) ODA igen(clo	
	C2	kh	èε		(against, etc.) ODA igen(clo	osed) Nie 204,154
choke v	C2 A2	kh	èε	n m		osed) Nie 204,154
choke v		[]g g kh g g kh	èε e	n m		osed) Nie 204,154 tool for tackling of cord)
choke v 14 tongs,		kh g g	èε e iə	n m	(jump) N f DU gimpe nål (osed) Nie 204,154 tool for tackling of cord) Nie 156,151
choke v 14 tongs,		kh g g g kh	èε e iə ii	m m	(jump) N f DU gimpe nål (i	osed) Nie 204,154 tool for tackling of cord) Nie 156,151 Hov 222, Oxf 417
tongs, pincers	A2	kh g g g kh	èε e iə ii	m m	(jump) N f DU gimpe nål (osed) Nie 204,154 tool for tackling of cord) Nie 156,151 Hov 222, Oxf 417
choke v 14 tongs, pincers	A2 WGM	kh g g kh k	èε e iə ii e iau	m m	(jump) N f DU gimpe nål (token) Kim čim (chew) IE gebh-(mouth, eat)	osed) Nie 204,154 tool for tackling of cord) Nie 156,151 Hov 222, Oxf 417
choke v 14 tongs, pincers	A2 WGM	kh g g kh	èε e iə ii e iau	m m w	(jump) N f DU gimpe nål (skim čim (chew) IE gebh-(mouth, eat)	osed) Nie 204,154 tool for tackling of cord) Nie 156,151 Hov 222, Oxf 417 Oxf 171
choke v 14 tongs, pincers	A2 WGM	kh g g kh	èε e iə ii e iau	m m w	(jump) N f DU gimpe nål (skim čim (chew) IE gebh-(mouth, eat)	Nie 204,154 tool for tackling of cord) Nie 156,151 Hov 222, Oxf 417 Oxf 171 Nie 248
tongs, pincers 18 chew v	A2 WGM	kh g g kh k	èε e iə ii e iau iá	m m w u	(jump) N f DU gimpe nål (mark) kim čim (chew) IE gebh-(mouth, eat) 17.1 - čeeu	Nie 204,154 tool for tackling of cord) Nie 156,151 Hov 222, Oxf 417 Oxf 171 Nie 248

20		kn	a	p	IE gn-ebh-		
narrow	D2L	g					Nie 228
		kh	êε	p	keep	kεpD2S	
21		kr	o	k	IE ger-(to wind	l)	
bent,	A2	g					Nie 238
crooked		Į	-		koo	koo	
27	OHG	sk	u	lter	(shoulder) IE s	kol-(shovel)	
carry w		g					Nie 381
a stick on the sho	oulder	kh	၁၁	n	koon	-	
X1		g	e	t	(beget, guess)	ON geta(guess) IE ghed
think v	D2S	g g					Oxf 415
		kh	í	t			Pok 438
X2		g	e	rt-ia	(sprig) ON gad	ldr (odd) IE gh	nazdho-(sprig etc.)
X2 odd	B2	g g	e	rt-ia	(sprig) ON gad	ldr (odd) IE gl	nazdho-(sprig etc.) Pok 413
	B2		e ĩi	rt-ia	(sprig) ON gad	ldr (odd) IE gl	
	B2	g		rt-ia	(sprig) ON gad	ldr (odd) IE gl	
	B2	g		rt-ia	(sprig) ON gad	ldr (odd) IE gl	
	B2	g			(sprig) ON gad		Pok 413
odd	B2	g kh	ĩi_		· · · · · · · · · · · · · · · · · · ·		Pok 413
odd 1		g kh	ĩi_		· · · · · · · · · · · · · · · · · · ·		Pok 413
odd 1 branch,		g kh g ŋ	îi a		· · · · · · · · · · · · · · · · · · ·	h(o) lā	Pok 413
odd 1 branch,		g kh g ŋ	îi a		· · · · · · · · · · · · · · · · · · ·	h(o) lā ŋaa	Pok 413 10.4 Nie 150
odd 1 branch, fork		g kh g ŋ	îi a âa	balo	(fork) IE ghab	h(o) lā ŋaa	Pok 413 10.4 Nie 150
odd 1 branch, fork 4	B2	g kh g ŋ ŋ	îi a âa ai	balo	(fork) IE ghab	h(o) lā ŋaa	Pok 413 10.4 Nie 150 P) IE reidh-
odd 1 branch, fork 4	B2	g kh g ŋ ŋ [ga] r	îi a âa ai	balo	(fork) IE ghab	h(o) lā ŋaa N greiðr (easy	Pok 413 10.4 Nie 150 P) IE reidh- Hov 238
odd 1 branch, fork 4	B2	g kh g ŋ ŋ [ga] r	îi a âa ai	balo	(fork) IE ghab	h(o) lā ŋaa N greiðr (easy	Pok 413 10.4 Nie 150 P) IE reidh- Hov 238
odd 1 branch, fork 4 easy	B2 B2	g kh g ŋ ŋ [ga] r ŋ	îi a âa ai âa	balo ði i	(fork) IE ghab - (with order) Of	h(o) lā ŋaa N greiðr (easy	Pok 413 10.4 Nie 150 P) IE reidh- Hov 238

9		sk	uw	w	IE skeu-(cove	er)	
shadow	A2	ŋ					Nie 383
		ŋ	au		ŋau	ŋau	
		1	i.	ı			
13		n	i	kwe	s IE neigu-		
mythological	D2L	ŋ	ie		15.3		Pok 761
sea monster		ŋ	la	k	ŋɨɨk	ŋ ii k	Nie 309
***	. ,	, 1		ı	() (G)		9
X1 HG		an) gen	eh	m	(pleasant) GM	nam(take) a	
beautiful	A2	ŋ					Pok 763
		ŋ	aa	m			
W2		ا ہے		l _	(-1 4h		ler o omeoll olik) III obloi
X3	Dat	gl	i	p	(close the eyes	s, leaving on	ly a small slit) IE ghlei-
have a nap	D2L	ŋ	4:				Nie 158
		ŋ	ĩi	p		····	
							10.5
3	OHG	anag	i	wen	(yawn, gape) l	E ghē-(ts)	10.5
yawn v	A1	hŋ	_	" "	() w.r., 8~P+) -	_ 8 (**)	Pok 420
y		h	ǎа	u	_	ŋaau	
		(J	
7		[an] k	eu	k	(jaw, cheek) II	E gebh-(mou	th, eat)
gum (tooth)		hŋ					Oxf 169
		ŋ	ià	k	h ii k	ŋ ii k	
		-		_			10.6
7		kn	ew	a	IE gneuo-		
knee	B 1	x	ou		16.12		Nie 232
		kh	àu		khau	hoo	

14		h	ō	k	(hook) IE keg-		D
hook, sickle	A 1	x kh	၁ ၁		_	hoo	Pok 537
		wi l	55	1		1100	
17	WGM	kh	u		ON knottr (kno		s)
knot	DIL				khoot		Nie 231
		kh	ò၁	t	khoot	hoot	
18	MN	kr	o	ta	(scrape) probl f	GM krat IE gre	ed-, grod-(scrape)
scrape off	D1L	х	Ü		\ 1 /1	Ü	Nie 237
v		kh	òɔ	t	-	-	Hov 382
		. 1		ı			
27	~.	k	u	rn	GOT kaúrn(gra	in) IE gro-nom	
rice	C 1	Х	əu		16.10		Nie 234
		kh	âu	khâa	ıu khau	hauC2	b)
28		sk	ĭ	t	IE skei-d- 16.2		
excrement	C 1	х	ei		16.2		Nie 372
		kh	ĩi		khii	haiC2	
		ı		ı			
29		sk	au	t	(shoot) N skjöt		
joint	Cl	x			over each ofhe	r IE (s) keud	Nie 386
		kh	၁်၁		-	hooB2	b)
32 WGM	keu	ık-l	ī	n	IE geu-(bend) C	3M lin (diminut	ive)
young	B1	x	ia		15.3.1	·	Nie 247,207
(chicken)		kh	ià	ŋ	-	haaŋB2	
							10.7
1		h	a	lm	(grass straw) IE	koləmo-	
thatch	A2	Y					Nie 172
grass		kh	aa		kaa	haa	

8		g	a	rð	(fence, ridge)	IE ghordho-	
dike of a rice	A2	Y					Nie 170
field		kh	a	n	kan	kan	
		i		1			
9	ON	g Y	Ø	la	(praise) GOT	goljan, OE galan	(sing magic songs)
praise,	B2	Y			IE ghel-(shou	t)	Nie 150
flatter v			-		kan	han	(sing magic songs) Nie 150 Hov 227
		1	ı				
11		g Y	e	rd	IE gherdh-		
gird, tie	D2L	Y			IE gherdh-		Nie 157
around v		kh	âa	t	-	h ii t	
		1	ı				
13	WGM	sk	a	nk	(part of boving	e leg, as ankle/thi	gh etc.) IE (s) keng-(limp)
lower leg	B2	Y	ε		14.9		Nie 370
		kh	êε	ŋ	keeŋ	heeŋ	
14		h	a	ls	IE kuolso-		
throat,		Y	э		14.11		Nie 172
neck	A2	kh	၁၁		koo	hoo	
17		k	u	l(b)	(club) IE gele	b(h)-(press toget)	ner)
hammer	C2	γ					Nie 251
mallet		kh	၁၁	n	koo?		
22		gr	i	p	(span betw the	umb and other fir	ngers) IE ghreib-
span betw.	D2L	Y					Nie 161
thumb and middl	e finger	kh	ïi	p	-	-	
24		h	a	k	(chin) IE keg-	, keng- (hook)	
chin, lower	A2	Y					Nie 171
jaw		kh	aa	ŋ	kaaŋ	haaŋ	

X1		sk	u	1	(hide) N skule(look askance at)	IE skeu- (cover)
look	C2	Y				Nie 375,381
askance at		kh	၁်၁	n		
			_	_		
X2		skr	u	t	(brag) ICEL kýta (scold) N ky	te (brag) IE gōu-(cry)
brag v	A2	Y	l			Pok 403
		kh	ui			Nie 379
			•			11.1
6	MLG	kl	a	nk	(sound/hollow obj.) IE glengh-	IE gel-(roundy obj.)
tube, log	A1,B1	kl]		Nie 222,224
		kl	a	ŋ A1	- čan B1	Pok 357 b)
11		k	a	lð	(cold) IE gel-(ts)	
cold (water)	D1S	kl			· · · · · · · · · · · · · · · · · · ·	Nie 233
,			_		kat čot	
14		k	u	la	(coal) IE g(e) ulo-	Nie 242
charcoal	B1	kl	-		(0000) 122 8(0) 1110	
Charcoar	Di	ALI.	_	1	- čoo	
				L	- 000	
						11.2
X 1		skr	au	m	IE skrē-m-	11.2
afraid	A1	kr	au	'''	IL SKIC-III-	Nie 379
anaiu	AI		110	ļ		Vri 506
		kl	ua	L		VII 300
						11.0
		ا ي	1	1		11.3
10		k	a	ng	MHG kanker (spider) IE gengh	
spider	A1	khl				Pok 380
			-	ł	(khjaanC1-) (čom B1)	
					khjaau A1 čaau A1	

X 1	OHG	kl	u	ng	(group) GM kl	eng(ts) IE g	lek-, gel-(press together)
herd(of ele-	A1	khl					Nie 227,151
phants), horde		khl	ŏo	ŋ			Vri 318
							11.4
2		aj	ja		NGM aggja IE	ə-ióm	
egg	B1	khr	əi		16.1		Nie 512
		kh	ài		khjai	čai	
		•		-	·	-	
4	WGM	ask	ō] j	(ask) IE ais-		
ask, beg	A 1	khr					Pok 16
v		kh	ŏο		ccd	-	Oxf 50
		•		•			
X1		kr	a	t	IE gred-		
scrape v	D1L	khr					Pok 405
*		kh	à	t	_	-	
				· · · · · · · · · · · · · · · · · · ·			
							11.5
2		gl	o	w-k	a (to glow) IE gl	hlōu-	
burn v	D2L	gl	_		(8) 8		Nie 158
		khl	ີ ວ <u>ີ</u>	k	_	_	
					•		
							11.6
X1		gr	ō	bō	(grave hollow	in the groun	d) ODA grue (fireplace)
kitchen	A2	gr	v		IE ghrebh-	in the groun	Nie 163
Riterien	112	khr	ua	l	IL gincon-		b)
		KIII	ua	<u> </u>			
							11.8
1		[]r	е	 	ı (rain) IE rek-n	á- ekur (ehc	
shower,clf	B 1			⁴⁻¹¹	t (tam) ie iek-ii	0- 2VAI (2110	Nie 342
f rain, storms	זע	xr h	àa		haa	laa	Vri 507
i iam, storms		h	àa	I	паа	laa	VII 30/

4		auz	a	n	ON eyra IE ōus-	
ear	A1	xr				Nie 518
		h	ŭu		huu l ii A2	
		ı		ı		
8		str	eu	k	N stryk (rapid river) IE streug-	
mountain	C1	xr	uəi	(?)	17.3.1	Nie 425
stream		h	ûa	i	huui, vuui vii	
			}	l		
10	GOT	gar	u	ns	(way, road) IE er-(move)	
way, road	A1	xr				Pok 329
		h	ŏ	n	- hon	·
						12.1
4		kw	a	st	(tuft, brush) IE gues-d-	
sweep v	D1L	kw		ł		Nie 235
-		kw	3.0	١.	1	
		KW	àa	t	kweet(?) kwaat,kweet(?)	
		KW	aa		kweei(!) kwaai,kweei(!)	
-		KW J	_aa	<u> [</u>	kweet(?) kwaat,kweet(?)	12.4
1				<u> </u>		12.4 van koon to waan(?)
1 vesterday	Α2	dāqw	aa	z-	gjez, ODA-igoor (day before)w	an koon to waan(?)
1 yesterday	A2	dāqw ŋw	a	Z-	gjez, ODA-igoor (day before)w	
	A2	dāqw		<u> </u>		an koon to waan(?)
yesterday	A2	dāqw ŋw w	a	z- n	gjez, ODA-igoor (day before)w vaa -	van koon to waan(?) Nie 84,170
yesterday 2		dāqw ŋw w dāqw	a	Z-	gjez, ODA-igoor (day before)w	van koon to waan(?) Nie 84,170
yesterday	A2	dāqw ŋw w dāqw ŋw	a aa a	z- n	gjez, ODA-igoor (day before)w vaa - (day) (burning be) IE dhōguho-	van koon to waan(?) Nie 84,170
yesterday 2		dāqw ŋw w dāqw	a	z- n	gjez, ODA-igoor (day before)w vaa -	van koon to waan(?) Nie 84,170
yesterday 2		dāqw ŋw w dāqw ŋw	a aa a	z- n	gjez, ODA-igoor (day before)w vaa - (day) (burning be) IE dhōguho-	van koon to waan(?) Nie 84,170 Nie 84
yesterday 2 day		dāqw ŋw w dāqw ŋw	a aa a	z- n z	gjez, ODA-igoor (day before)w vaa - (day) (burning be) IE dhōguho- van ŋɔn	van koon to waan(?) Nie 84,170
yesterday 2 day	A2	dāqw ŋw w dāqw ŋw w	a aa a	z- n	gjez, ODA-igoor (day before)w vaa - (day) (burning be) IE dhōguho-	van koon to waan(?) Nie 84,170 Nie 84 12.5
yesterday 2 day		dāqw ŋw w dāqw ŋw	a aa a	z- n z	gjez, ODA-igoor (day before)w vaa - (day) (burning be) IE dhōguho- van ŋɔn	van koon to waan(?) Nie 84,170 Nie 84

		_					12.6
1		kw	i	k-fé	(liveing cattle)	E gueg-,peku-	
buffalo	A2	γw					Nie 246
		khw	aa	i	vaai	vaai	
							13.1
1	NGM	g	a	p	IE ghēp-		
open	NGM C1	?			IE ghēp-		Nie 150
(mouth) v		?	âa		?aa	?aa	
		,					
5	NGM	[]-	ai	-ma	(smoke, vapour) IE āi-(burn) Nie 106 - ?aai(?) Vri 96		
vapour	A1	?			-		Nie 106
		?	ai	•	-	?aai(?)	Vri 96
		1					
7		k	i	k			
cough v	A 1	?	i a				Nie 219
		?	a	i	?ai	?ai	
		ı		1	?ai (one, neutr) GM 14.6.1 ?it		
17	ON		ei	tt	(one, neutr) GM	1 aina IE oi-no	
one	D1S	?	ie	l	14.6.1		Nie 106
		?	è	t	?it	?it	Lan 124
		. 1		ı			
19	WGM	k	i	m	MLG kimme(bi	rim, edge) IE ge	em-(be full, etc.) Pok 368 Hov 342
full	B1	7	i		14.3.1		Pok 368
satiated		?	ì	m	?im	7im	Hov 342
25		, I	[]	١,	ON 1.1- TC 1 1	(OF 1	1=: (A. 1)
35	ъ.		Į J	lew	ON hlÿr IE kel	-(warm) OE na	
warm	B1	?			0	•	Pok 552
		?	ù	j n	?un	?on	
37	ON	h	:		IE Ro-eno-		
other	B1	?	i iə	nn	14.4.3		Nie 182
onici	וט	?					
		1	Ĭ i	n	?in	<u>-</u>	Vri 228

				_		13.2
9		unh	[]	twōn	ON ótta (morning) rel. to na	ht (night) IE noktu-
morning	D1S	h				Nie 317
C			_		- hat	
				•		
17		h	u	piz	MLG hufte (hips) IE kubi-	
hips, loin	D1L	h	u	Pi		Nie 185
mps, rom	DIL	**	_		- h ii t	Oxf 471-2
		J	_	í	- imit	OXI 471-2
X1	NGM	h	ō	مام	(small bay) IE (s) kamb-(bend)	
		h	U	Pia	(sman day) IE (s) Kamo-(ochu)	
space, depress-	D1S				15 11 7 / 11	Vri 248
ion(betw. mounta	ains)	h	ù	P	hùp-khǎu(valley)	Pok 918
		. 1		1.		
X2		h	a	rja	(army) IE korio-	
parade	B1	h				Nie 197
		h	èε			b)
		,		1		
X3		h	a	mp	IE kem-	
forbid	C 1	h				Pok 555
prohibit v		h	âa	m		
				_		
X4	OHG	(ar)h	ei	gētui	dried out) IE kai-(heat)	
dry	C 1	h				Pok 519
•		h	êε	ŋ		
			,			
X5		h	i	p	ODA hibe (longing for)	
hungry	A1	h	_	r	ODA hibe (longing for)	Nie 183,131
nungi y	711	h	ĭ	u		14.0 103,131
		11		۱ ۵		
X6		h	ūdw	artō	(skin wart) IE kuti-,uordā-	
	D1L		iuuw	امان	(Skill wait) IE kuti-,uotua-	Nie 500 199
wart	שוע	h h	S	1.		Nie 500,188
		h	ùu	1	 	

Explanatory notes:

Group No. and Word No. as in Fang Kuei Li. For words not in Li, an x-No is given.

<u>Line 1. The GM version:</u> The GM word is usually a GM root, if not then from an old GM language (stated). The GM etymology is mainly from N. Å. NIELSEN, 1990. In addition Pokorny is a main tool. The references are shortened as follows:

Nie N. Å. Nielsen-90
Pok J. Pokorny-59
Oxf Oxford English Dict. -84
Lan Landrø and Wangensteen 1986
Hov Hovdenak e.a.-86
Vri Jan de Vries-77
Fal Falk & Torp-60
Buc C. D. Buck-49

Parantheses () are used for letters supposed to have fallen away. Brackets [] are used for letters supposed to have been in the word before the transfer. English translations are also in paranthesis.

b) - markers are for words with an adjacent meaning in GM.

<u>Line 2. The Proto-Tai version (after Fang Kuei Li):</u> Tone classes are given as by Li, for x-words reconstructed. Proto-Tai vowels are presented if included in Li.

<u>Line 3. The Tai version:</u> The Tai words are presented as in Li: No. 1 Siamese, No. 2 Lungchow and No. 3 Po-ai dialects. X-words (not in Li) are only in Thai.

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