

Linguistic Contacts in Ancient East Asia
(early draft version)

In his first and last English publications, Sergei Starostin discussed the ancient linguistic contacts of the Chinese language. The puzzle of East Asian linguistic prehistory is still far from being solved, but some of the pieces are already known.

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Ancient East Asia can be seen as an area of interaction between three major linguistic powers: the local Austric super-family and the two invaders (the Sino-Tibetan, especially the Chinese, and the Altaic families).

Austric

The Austric super-family is made up of four daughter-families, grouped into two branches: Austronesian + Tai-Kadai and Austroasiatic + Miao-Yao (Peiros 1998¹).

1. The Austronesian (AN) languages can be roughly subdivided into three branches: Formosan (AN languages of Taiwan), Malayo-Polynesian (Western AN, Central Pacific, etc.) and Oceanic. Phonological correspondences (only for Formosan and some MP languages) are used to reconstruct the Proto-AN system. Blust's AN comparative dictionary (Blust, n.d.) represents the Formosan and Malayo-Polynesian lexicon fairly well, while the set of comprehensive Proto-Oceanic etymologies is quite limited (see Ross et al., 1998, 2003, 2008).

The disintegration of the Proto-AN language began earlier than 5 thousand years ago (5 KYA)² not in Taiwan, as it is generally believed (Blust 2008, Adelaar), but somewhere in the subtropical areas of mainland China (Peiros).

2. Most of the Tai-Kadai daughter-groups are known relatively well. The only exception is the Gelao group (Ostapirat, 2000; Diller et al. 2008). A representative collection of etymologies for one of its principal branches, Zhuang-Tai, has been published (Li 1977) and is available (with a few modifications by Peiros) on the EHL data-base (1329 entries)³. A limited number of common Tai-Kadai forms (excluding Gelao) can also be found digitally.

The age of the Tai-Kadai family is estimated to be around 5 KYA. Its homeland was located somewhere not far from the Jinsha valley (modern Yunnan)⁴ (Peiros MS).

¹ The Russian version of the book was finished by 1985.

² The calculations exclude Austronesian languages of New Guinea and some adjacent islands (Peiros AN-1)

³ See also Pittayawat Pittayaporn, 2009.

⁴ Jinsha is the westernmost of the major headwater streams of Yangtze.

3. The Austroasiatic (AA) family is represented by a digital etymological dictionary (currently over 2,500 entries), found in various publications, but mainly identified through direct comparison of ten lower level daughter-branches (Peiros 2004, digital data-base).

The AA family seems to be the oldest among the Austric branches (over 7 KYA). The AA homeland was located not far from the mid-Yangtze valley (Peiros and Shnirelman 1998, Peiros 2011).

4. The Miao-Yao (MY) family is the youngest in the super-family (about 4 KYA), with its languages being heavily influenced by Chinese; in many cases Chinese lexical borrowings substituted many original words, so the known proto-language lexicon is very limited (Peiros 1998; Ratliff 2010). Therefore, no cultural reconstruction can be suggested. All the MY proto-forms used in the Austric comparisons, are taken from (Peiros 1998). Combining the distribution of modern languages with their known migrations, one can suggest that the homeland of the family was located in the mountains of Guizhou, presumably not far from the proposed AA homeland. At the same time, the modern MY distribution is determined by the relatively recent spread of Chinese speakers, and thus Guizhou, in fact, that may be their last stronghold.

In 2004-5 Sergei and I collected some lexical similarities in support of the Austric hypothesis (Peiros and Starostin MS and data-base). I returned to the Austric studies only recently, improving and expanding the original data-base by etymologies mainly from Proto-AA and Proto-AN.

The age of Proto-Austric can be estimated around 10 KYA. It is possible to speculate that the Austric homeland was not far from the Yangtze valley: while the Tai-Kadai homeland may be located in the Jinsha valley (modern Yunnan, north of Kunming), Proto-AA was presumably spoken close to the mid-Yangtze valley (modern Sichuan), and the MY homeland was probably nearby. It is very tempting to accept the hypothesis that the ancestors of Proto-AN speakers could have lived in the Yangtze valley also (Bellwood 1997), and not on the sea coast, as some scholars believe (see discussion in Sirk, 2008).

Altaic

The Altaic is formed by two branches – Western (Turkic and Mongolic languages) and Eastern (Tungusic, Koreanic, and Japonic languages). *Altaic Etymological Dictionary* (Starostin, et al. 2003) contains more than two thousand entries reconstructed with the help of elaborated system of phonological correspondences. The Altaic data-base contains also EA etymologies used in this paper.

The age of the Altaic proto-language is estimated around 8 KYA.

Sino-Tibetan

The history of the Sino-Tibetan family (ST) is not well known. In the 1970s Sergei and I conducted a comparison of five ST languages (Chinese, Tibetan, Burmese, Lushai and Jingpo = Kachin), as no other dictionaries of hundreds of other ST languages were available to us. Later Sergei added to the data for the Lepcha and Kiranti languages (Peiros and Starostin 1996; digital data-base).

We also made a few attempts of lexicostatistical studies of the family. As the majority of the languages remain poorly known, the results vary, but it seems that the family is formed by more than a dozen main branches. For example, the languages included in the ST data-base belong to five branches: Chinese,

Lepcha, Jingpo, Kiranti and Tibeto-Burman (Tibetan, Burmese, Lushai). Therefore lexicostatistics does not confirm the common view that Chinese represents the most ancient branch of the family. Its unique lexicostatistical position may be caused by some unidentified loans.

Most major branches of the Sino-Tibetan family are found not in China, but much further to the west (India, Nepal and Burma). This consideration supported by cultural reconstructions lead me to the conclusion, that the ST homeland was located not in the Huang He valley (as it is often believed XXX), but somewhere in Sub-Himalayans (Peiros 1998). The disintegration of Proto-ST began, probably in the 4th millennium BCE (6 KYA).

In the 1980s Sergei discovered the Sino-Caucasian super-family which originally linked together North Caucasian, Sino-Tibetan and Yenisseian languages (Starostin). In the early 2000s he put forward the hypothesis of genetic relationship between the four known super-families (Euroasiatic⁵, Afroasiatic, Sino-Caucasian and Austric), proposing the existence of a single super-super-family, later called “Borean” (Gell-Mann et al.).

There are lexical similarities between ST and AA proto-languages. As in many other cases, at least three different types of them can be identified: (i) erroneous resemblances, (ii) traces of remote common origin, and (iii) borrowed words. Examples given in Appendix I, represent mainly the third option. A significant number of ST forms in the Appendix have good Sino-Caucasian etymologies⁶. Austric etymologies are known only for a few of AA counterparts⁷. The examples given in Appendix I, indicate that the two proto-languages were in intensive linguistic interaction with borrowings going in both directions (?), with Proto-ST being the major donor:

Proto-ST <==> Proto-AA

It is estimated that the disintegration of Proto-ST started about 6 KYA, so the contacts between the two proto-languages must have taken place before that. If the suggested localizations of the homelands are correct, the area of contacts was be somewhere to the south or south-west of the mid-Yangtze valley.

A possibility of ancient contact between Old Chinese (OCH)⁸ and AA languages has been proposed by several linguists. For example, Schuessler’s Chinese etymological dictionary (Schuessler 2007) contains multiple entries where OCH words are compared with AA. There are doubts that the OCH speakers met speakers of AA languages, but the contacts must belong to the much later chronological periods.

OCH <=#=> Proto-AA

Connections between ST and AN languages have various explanations. P. Benedict insists that OCH was a recipient of multiple AT borrowings. L. Sagart suggests that there is a separate Sino-Austronesian family, and that ST and AN families belong to it (Sagart, Blust). In 1978 Sergei and I demonstrated that the

⁵ “Nostratic” in Sergei’s terminology.

⁶ All Sino-Caucasian etymologies are taken from Segrei’s data-base.

⁷ Cases where both ST and AA forms have external etymologies, are provisionally attributed to the Borean level, and not listed.

⁸ In this paper, OCH is the term to cover a long period of language development: from its separation from Proto-ST (about 6 KYA) to the form obtained by internal reconstruction (about 3.5 KYA).

similarities between OCH and Proto-AN were caused by borrowings which went in both directions (Peiros and Starostin 1978). There is also a very limited set of ST – Proto-AN similarities without OCH reflexes. Now it seems better to explain this type of similarities either as traces of the Borean relation or as etymologies, where OCH reflexes are yet to be found. If it is so, the contacts took place around 5 KYA (after the split of Proto-ST and before the disintegration of Proto-AN).

Proto-ST \Leftrightarrow Proto-AN

OCH \Leftrightarrow Proto-AN

Sergei discovered that OCH have an interesting stratum of Altaic borrowings which share three common features: "1. The Old Chinese words are usually attested at least starting with Early Zhou (only a few of them are attested later than 6th century B.C.). 2. For none of these words have any Sino-Tibetan parallels been proposed. 3. On the Altaic side, the words are well represented, particularly in the east (Korean, Japanese and Tungus-Manchu)"⁹. Discussing the impact of this discovery, Sergei mentioned to me that the Neolithic Yangshao culture of the Huang He valley can be associated with those Altaic speakers. The contacts (not peaceful) began when the speakers of OCH reached the Huang He valley and met the local Altaic population. My guess is that this could have happened at about 4 KYA.

OCH \Leftarrow (Proto-)ALT

Proto-ST \Leftrightarrow Proto-ALT (???)

To explain OCH – AN contacts, I assumed that the AN homeland may be located to the south of the Shandong peninsula (Peiros 1998). In this case it was only logical to look for lexical similarities between AN and ALT languages. To my surprise, no convincing set of look-alikes were found, indicating that Proto-AN was spoken somewhere else.

Proto-AN \Leftrightarrow (Proto-)ALT

At the same time a list of lexical look-a-likes between Proto-AA and (Proto-)ALT have been created, Appendix II lists some of them. AA forms given there, are presumably not of AU origin, while some ALT forms have good EA etymologies. When such EA etymology is known, the direction of a borrowing process is easy to determine: from an ALT source to Proto-AA.

(Proto-)ALT \Rightarrow Proto-AA

However, one cannot expand this suggestion to all examples in Appendix II, as OCH forms (even sometimes with ST etymologies) can often be added to the AA – ALT pairs. It is not clear, how to explain these triplets. One way is: (Proto-)ALT \Rightarrow OCH \Rightarrow Proto-AA. But it is not very effective as: (i) OCH is much younger and (ii) there are no other borrowings found from OCH into Proto-AA. In fact, we might be dealing with several different cases.

The above observations lead to the following scenario:

⁹ An additional list of borrowings is given by G. Starostin (2009).

1. The Austric super-family is the only known linguistic entity spoken in East Asia about 10 KYA. One can speculate that the homeland of this super-family was somewhere in the Yangtze valley. There is no information about Proto-Austric contacts with other language (super-)families.
2. After the disintegration of Proto-Austric, the Proto-AA language (spoken in modern Sichuan) came into contact with Proto-ST speakers, presumably before the beginning of the ST migration towards East Asia. The linguistic contacts were rather intensive, with the dominant ST impact. The contacts took place about 6 KYA.
3. At the same time or even slightly earlier, Proto-AA also had contacts not with Proto-ALT, but with one or a few of its daughter languages, which acted as the donors for the loans. Sometimes Proto-AA could even serve as a 'middleman' between ALT sources and Proto-ST.
4. It seems logical to assume that the ALT homeland was located not in the Huang He valley, but much further to the north.
5. Proto-AN had no contacts with ancient ALT languages or Proto-ST, which indicates that it was spoken far away from their locations about 6 KYA.
6. After the disintegration of Proto-ST (6 KYA) the remote ancestors of the Chinese began their migration from the Sub-Himalayas. At first they met Proto-AN speakers who might have dwelled somewhere in the Yangtze valley. The estimated time of these contacts is around 5 KYA.
7. The next direction of the Chinese migration was northwards. Around 4 KYA they reached the Huang He valley to meet ALT speakers.

Appendix I.

AA : *bəlɔ : <i>ashes</i>	STIB : *λā : <i>soot, ashes</i>
AA : *ta:w : <i>to stand</i>	STIB : *dhǝw(H) : <i>place upright, post</i>
AA : *ʔu:lh : <i>fire</i>	STIB : *χ ^w elH : <i>to burn, fire</i>
AA : *ɲa:r : <i>green, red</i>	STIB : *mǝr : <i>red; *ɣrǝw blue, green</i>
AA : *rɔ:ŋ / *rɔ:ŋ : <i>neck</i>	STIB : *rǝŋH (~-iǝ-) : <i>neck</i>
?AA : *ta:k : <i>tongue</i>	STIB : *λāk : <i>tongue, lick</i>
AA : *rɔŋ / *rɔ:ŋ : <i>back</i>	STIB : *ruaŋ : <i>back</i>
AA : *ce:t : <i>to kill</i>	STIB : *sāt : <i>to kill</i>
AA : *dal : <i>block, cover</i>	STIB : *[t]ǝlH : <i>to stop</i>
AA : *loŋ / *luŋ : <i>valley</i>	STIB : *luaŋ (k-) : <i>interior; valley</i>
AA : *laj : <i>fruit</i>	STIB : *li : <i>fruit, seed</i>
AA : *kla : <i>tiger</i>	STIB : *[χ]lāH : <i>tiger</i>
AA : *ma:n̄ : <i>ask, tell</i>	STIB : *m(r)ǝn : <i>ask</i>
AA : *ri:t / *rɛ:t : <i>cricket, cicada</i>	STIB : *rīt / *rūt : <i>cricket</i>
AA : *tVŋ : <i>trap</i>	STIB : *thǝŋ : <i>net</i>
AA : *dʔil : <i>belly</i>	STIB : *dhj[ũ]l (~-t) : <i>belly</i>
AA : *raŋ : <i>wasp, fly</i>	STIB : *m(r)āŋ / *m(r)āk : <i>gadfly, fly</i>
AA : *ra:j : <i>spirit, demon</i>	STIB : *rāj : <i>a k. of demon</i>
AA : *ru/*rɔ : <i>fishtrap</i>	STIB : *rīwH (-k) : <i>fish trap</i>
AA : *ro:ŋ : <i>hall, house</i>	STIB : *kriāŋ (~g) : <i>village, town</i>
AA : *lɔ : <i>snail</i>	STIB : *lǝ (~-ǝw) : <i>snake, snail</i>
AA : *lɔ:ŋ / *luŋ : <i>boat</i>	STIB : *lǝŋ / *lǝn : <i>boat</i>
AA : *zu:t : <i>wipe, rub</i>	STIB : *chūt (~-ch-, -uat) : <i>wash, wipe</i>
AA : *sa:k / *cɔ:k : <i>look for</i>	STIB : *siāk : <i>search</i>
AA : *raŋ / *rɔŋ / m*rīŋ : <i>hard</i>	STIB : *reŋ : <i>hard</i>
AA : *ciet / *cit : <i>to slice</i>	STIB : *ch[ē]t : <i>to cut</i>
AA : *laŋ : <i>clean, transparent</i>	STIB : *λ[a]ŋ : <i>light, bright</i>
AA : *ruam : <i>put together</i>	STIB : *rīm(H) (k-) : <i>combine, together</i>
AA : *rəm : <i>edge, rim</i>	STIB : *rem : <i>sharp</i>
AA : *puas : <i>barking deer</i>	STIB : *phāwH : <i>a k. of deer</i>
AA : *kluāŋ : <i>middle, inside</i>	STIB : *luaŋ (k-) : <i>interior; valley</i>
AA : *ries : <i>root</i>	STIB : *rī (-t, -s) : <i>bone</i>
AA : *riāŋ : <i>beam, rafter</i>	STIB : *riāŋ : <i>trec, wood</i>
AA : *Tuŋ : <i>deaf</i>	STIB : *Toŋ (~-u-) : <i>dull, stupid</i>
AA : *ra:w : <i>wash</i>	STIB : *g(h)rua (-t) : <i>wash</i>
AA : *caw : <i>owner, lord</i>	STIB : *cīH : <i>govern, rule, lord</i>
AA : *sənam or *s<ən>am <i>year</i>	STIB : *nīmH : <i>harvest, rainy season</i>

AA: *kəla:ŋ : <i>bird of prey</i>	STIB: *lǎk / *lǎŋ : <i>bird of prey</i> < SC *HÉqWǎ
AA: *Cəriɛŋ : <i>horn</i>	STIB: *qʷrāŋ : <i>horn</i> < SC *qūrV (~G-)
AA: *dap / *tap : <i>layers</i>	STIB: *thǎp : <i>fold, place one upon another</i> SC *dVpV
AA: *ʒu:r / *ʒo:r : <i>to pour</i>	STIB: *sór : <i>flow, pour</i> < SC *šVrV flow, river
AA: *(Cə)luom : <i>liver</i>	STIB: *lǔm / *lǔŋ (?) (~λ-) : <i>heart</i> < SC *λĒwŋV
AA: *kə:ŋ : <i>mountain</i>	STIB: *kāŋ (~g-) : <i>hill</i> < SC *bĕŋŋe
AA: *bim / *bəm : <i>mountain</i>	STIB: *bīm : <i>mountain</i> < SC *pV̄mV
AA: *mia : <i>rain</i>	STIB: *mo (~-ew, -aw) : <i>sky</i> < SC *mūsi
AA: *koh / *gə : <i>island, hill</i>	STIB: *khʷi : <i>hill, mound</i> < SC *ʒáwqV mountain, hill
AA: *pla : <i>blade</i>	STIB: *lǎ (m-) : <i>arrow</i> < SK *lǎ[l](H)V
AA: *la : <i>leaf</i>	STIB: *lā(k) : <i>leaf</i> < SC *λwírʔV leaf
AA: *caw : <i>grandchild</i>	STIB: *sū : <i>grandchild</i> < SC *išwĒ son, child
AA: *riək / *rik : <i>cut, split</i>	STIB: *rek : <i>cut</i> < SC *rǎ(x)qV to cut, flay
AA: *cVj : <i>sibling</i>	STIB: *cǎjH <i>elder sister or brother</i> < SC *īcī brother, sister
AA: *kə(?) : <i>neck</i>	STIB: *k(h)əwH : <i>head</i> < SC *kÚHV head
AA: *ra:p : <i>shelter</i>	STIB: *yǎp (~-ǎp) <i>dwelling</i> < SC *bVpV (~-b-) house
AA: *rə:k : <i>squirrel</i>	STIB: *ruak <i>rat</i> < SC *rĕgwǎ a k. of rodent or small predator
AA: *ruaŋ / *rə:ŋ : <i>river</i>	STIB: *kruaŋ : <i>river, valley</i> < SC *xkǎlhV lake, river
AA: *kə:ŋ : <i>stem</i>	STIB: *kūŋ : <i>plant, branch</i> < SC *xkwV̄ŋV fir-tree branch
AA: *ka:m : <i>husk, bran</i>	STIB: *kuam : <i>shell, cover, husk</i> < SC *kōnmo skin
AA: *tuŋ : <i>hole</i>	STIB: *thuŋ (~ dh-) : <i>empty, hole</i> < SC *dwōnŋV hole
AA: *kul / *ku:l : <i>back</i>	STIB: *qālH <i>back, small of the back</i> < SC *GwVtō side; back
? AA: *təŋaj : <i>day, sun</i>	STIB: *nīj (*s-nīj ?) <i>sun, day</i> < SC *swənʔV day, yesterday
AA: NMK *ʔiɛk / *ʔiɛŋ <i>excrement</i>	STIB: *qjāk / *qjāŋ <i>dirt, faeces</i> < SC *GHǎlGī dirt, dung
AA: *duak / *dʔuak : <i>boat</i>	STIB: *tĕkʷ <i>vessel, cup, scoop</i> < SC *[t]ā(x)qV vessel, scoop
AA: *pədʔur / *pədʔu:r : <i>blister</i>	STIB: *dhŭr : <i>blister, abscess</i> < SC *[t]wǎrʔi blister
AA: KMU *cər-gu:l : <i>finger, toe</i>	STIB: OC 拮 *kijʔ : <i>finger</i> < SC *ko[t]V finger, toe
AA: PM *kədʔap : <i>head</i>	STIB: *di(ə)p ~ *dɛp : <i>top</i> < SC *dV̄mpé
AA: *kə:ŋ / *kaŋ : <i>leg</i>	STIB: *kǎŋ / *kǎk (r-) < SC *kǎ[l]kV joint; leg
AA: *r[ua]ŋ : <i>road</i>	STIB: *riāŋ / *riāk (k-) : <i>road</i> < SC *Hrēm(x)qī
AA: *ʒəj / *ʒiəj : <i>ill, sick</i>	STIB: *ʒhaj : <i>illness, disease</i> < SC *ʔǎʒV sick, ill
AA: *la : <i>testicle</i>	STIB: *laH (~λ-) : <i>testicles, male</i> < SC *ʔirλwV
AA *Cərmə:l / *Cərməl <i>male</i>	STIB OC *m(hr)ūʔ : <i>male animal</i> < SC *mōr[Ł]V ? male

AA : *suah : *wet, dip in*
STIB : *sũH (~ ch-) : *wash*

AN : *hisuq : *clean, wash, scrub, scour*

AA : *wier / *we? : *left (side)*
STIB : *wǎjH (~ -ě-) : *left; phaj left*

AN : *wiRi : *left (side)*

AA : *lip : *immerse, sink*
STIB : *ł[u]p : *dive, submerge*

AN : *celeb, *delep, *le(p)lep : *sink, submerge*

AA : *d?u:m : *ripe*
STIB : *r[u]am : *ripe, full-grown*

AN : *lum : *ripe*

AA : *cak / *ʒok : *to string, insert*
STIB : *cuk : *stick into, plant*

AN : *tisuk; *ra(ŋ)suk; *Cesek : *stab, insert*

Appendix II

I. Austro-Asiatic / Altaic.

AA *cuah / *co:ɟh *sand*

ALT *č'ájV (~ -ě-) *sand, sandbar* < EA *čajV (~ *č'-)

AA *cuəɟ *knife, axe*

ALT *č'jaŋu (~ *č'jɔŋe) *a sharp bone, sharp instrument* < EA *CVNV 'smth. sharp' < BOR

AA *sɔ:k *straw*

ALT *č'ik'ò *straw, chaff; sjaiku (~ z-) chaff, husks; *č'jòk'e (~ -k-) grass, weed* < EA *CIkO *chaff*

AA *sar *cat, fox*

ALT *č'élV *a k. of small animal* < EA *[čw]VlɣV < BOR

AA *cat *bitter*

ALT *č'jātu (~ *t-) *sweet, taste* < EA *cwVtu < BOR

AA *ɟɔ *pine tree*

ALT *ɟiàŋe *fir-tree* < EA *nájɟV *a prickly tree*

AA *goŋ / *go:ŋ *cold*

ALT *k'iojŋo *cold* < EA *kVjŋV

AA *kɔŋ *hold in the teeth*

ALT *keŋV *to bite, gnaw* < EA *kVngV 'to gnaw'

AA *ga:k / *ka:k *branch*

ALT *k'ujk'è *root, stem; *gač'i (~ *gèč'a) branch, bough* < EA *kUjkV

AA *kɔ:n *child*

ALT *kũji *child* < EA (Drav) *kuń-

AA *kan / *kin *woman*

ALT *kune (~ g-) *one of several wives* < EA *k/u/nV *woman*

AA *kVp *husk*

ALT *gébó *shell, husk* < EA (Drav) *gaviseŋ-

AA *kɔ:p *turtle*

ALT *kɿap'a *turtle, crayfish* < EA *kVpV

AA *ka:r *weasel*

ALT *k'úre (~ -i) *a k. of fur animal* < EA *k[u]nV *marten*

AA *kuaj *lizard*

ALT *kulV (~ -o-, -í-) *snake, worm* < EA *kuŋV

AA *kuaj / *kɔ:j *deer*

ALT *guri (~ -o-, -r-, -e) *deer, game* < EA *gujrV

AA *kVj *son-in-law*

ALT *kele (~ -i, -o) *daughter-in-law, bride* < EA *kälU < BOR

AA *gɔ:r *mountain, forest*

ALT *k'ori *hill; embankment, boundary* < EA *gwVrV

AA *lɔ:m / *lum *bag*

ALT *lámó *a k. of bag* < EA *IVmV < BOR

AA *loʔ / *ləʔ *good*

ALT *alu *good, beautiful* < EA (Drav) *al-ar- *to blossom*

AA *leh *weak, tired*

ALT *āle *weak, tired, confused* < EA *HalV < BOR

AA *mVk *cheek, temple*

ALT *majji *temple, forehead, ear* < EA (Drav) *skull, head* < BOR

AA *mə *dream, sleep*

ALT *āmV *to be quiet; sleep* < EA *ʔamV

AA *bVl *bush, shrub*

ALT *bjōla *a k. of bush, spiraea* < EA *bVIV

AA *pual / *puol *augur*

ALT *pʹjōlge *to pray, sacrifice* < EA *pVlgV

AA *bʔu:l *hill, top*

ALT *pʹōre *top* < EA *pVrV

AA *pVt *flea*

ALT *pātʹe *louse, biting insect* < EA *pVN(T)V ? < *pVN(T)V ?

AA *bə-ʔa:r *two*

ALT *ōre (~ -i) *other, one of two* < EA *jVrV 'two, pair'

AA *tīl *sand, soil*

ALT *tʹōre *soil, dust* < EA *tVrV *earth, dust* < BOR

AA *tVr *walk, go*

ALT *dōre *to go, walk, approach* < EA (Drav) *dār-i *way, road*

AA *wVk *knife*

ALT *bākʹù *a sharp instrument* < EA *bEḶV

AA *ca:k *pandanus*

ALT *č'[a]ge *a k. of plant (reed) and its bast*

AA *sVŋ *hear*

ALT *čīŋV *to listen, consider* (with weak EA etymology)

AA *se:l *peel*

ALT *sīla *to rub, clean*

AA *ce:m *bird*

ALT *sīmò *a k. of bird*

AA *cVp *bag, wrap*

ALT *čābā (~ -o) *sack*

AA *sVp *dress*

ALT *č'jop'a (~ *č'jap'u) *a k. of clothing*

AA *cV? *worm, maggot*

ALT *č'āk'i *a k. of insect*

AA *sə(N)=kaw / *gaw, -

ALT *čāgo *a k. of small predator*

AA *suar *speak*

ALT *sōra *to ask, inform*

AA *ŋə:jh [= *ŋə:s] *buy*

ALT *ŋānsa *debt*

AA *ŋa:r *green, red*

ALT *ŋiōle *red, pink; yellow*

AA *gɔ:ŋ *gong*

ALT *kōŋa *bell*

AA *kV(l) *dandruff*

ALT *kionŋu (~ k'-) *dandruff, mould*

AA *li:k *pig*

ALT *luko *wild pig*

AA *lam *hundred*

ALT *námò *hundred*

AA *mo:c *ghost*

ALT *mùsi *steam, spirit*

AA *bʔε(?) / *ba:k *Job's tears*

ALT *pǝage (~ p'-) *a k. of weed, panicum*

AA *bʔuəm *tuber*

ALT *p'enu *a k. of edible root*

AA *ʔVm *live*

ALT *ĕma (~o) *to stay, be left, leave*

AA *hu:r *skin*

ALT *ĕru (~ -r'-) *skin*

AA *hieʝ *otter*

ALT *uji (~ *o-) *a k. of small animal*

AA *dal *block, cover*

ALT *dálá (~ -o) *to close, hide*

AA (Khmer) ʔp *ten*

ALT *ĉjobe (~ *t-) *ten*

AA *tVh *give*

ALT *jǎta (~ -t'-) *to give, gift* (with a weak EA etymology)

AA *tur *rat*

ALT *dorVkV *a k. of badger*

AA * CəN-ta:j, *hare*

ALT *t'arba *a k. of small animal*

AA *jVr *flying squirrel*
ALT *d̥jari *a small animal (flying squirrel)*

AA *kVn *cloth*
ALT *kōni (~-e) *leather, cloth*

II. Austro-Asiatic / Altaic / Old Chinese.

AA *cVl *whet, sharpen*
ALT *č`alu *sharp, (to cut)* < EA *cVIV *split*
OCH: 鑄 cor 'chisel, sharp point' [LZ]

AA *ʒəj / *ʒiəj *ill, sick*
ALT *č`jolu *crippled*
OCH 瘥 *ʒāj / *caj *disease* < ST

AA *kVŋ *insect*
ALT *k`juŋu *worm, grub; *goŋV(rV) 'a k. of insect'* < EA *k̥wVŋV ??
OCH 蟹 g(h)oŋ 'cricket'

AA *ka:ŋ *house*
ALT *k`umi (~-e) *tent, temporary dwelling* < EA *kojmV < BOR
OCH 宮 *kuŋ *palace* < ST *q̥im (~*q̥im)

AA *kVl *ten*
ALT *k`jura (~-u) *twenty*
ST *kuł *twenty; all*

AA *kam *arrow*
ALT *k`emá *sharp, sharp tool*
OCH 劍 kam-s 'sword' (SAS)

AA *kVm *black*
ALT *k`ume (~-ju-) *black; coal* < EA *k̥UmV
OCH 紺 kōms 'purple' < ST

AA *kur *pig*

ALT *k'jōro (~-u) *lamb, deer* < EA *k̥wVrV ??

OCH 豕 g(h)wār 'a k. of pig' [LZ]

AA *kVr *bark, skin*

ALT *k'éra *bark*; *k'úla *bark, scales; scab* < EA *k̥erV

OCH 幹 kārs *body, substance, stem*

AA *kVr *bow*

ALT *kare *bow, to shoot from a bow*

OCH 鞬 kar *bow and arrow case* [LZ]

AA *kVt *to sharpen, whet*

ALT *k̥iātu *sharp tool; notch*

OCH 刮 k^wrāt *scrape, polish* [L.Zhou] < ST

AA *kōw *rice*

ALT *mjurgu *wheat*

OCH 麥 mrāk *wheat, barley* (SAS)

AA *kuaj *person*

ALT *k'jule *person* < EA *k̥UÍV

OCH 鬼 *kuj? *spirit, ghost, demon* < ST *GuajH

AA *kuəj / *kuoj *millet*

ALT *ʒiúgi *millet*

OCH 稷 cək *variety of millet* (SAS)

AA *kə=la:ŋ *bird of prey*

ALT *lak'[a] *a k. of bird* < EA *HalV̥k̥V

OCH 𪗇 *lək (~L-) 'a bird of prey' [since Han] < ST *lək / *ləŋ

AA *lɔ:k / *lɔk *weasel*

ALT *l[u]k'V̥ (~-k-) *lynx, wild cat* < EA *lo̥k̥V

OCH 鼬 lus (~L-) *weasel* (with a weak ST etymology)

AA *liam *good*
ALT *lami *convenient, helpful*
OCH 艷 l(h)ams *beautiful*

AA *bə=lɔ *ashes*
ALT *p'ólne *ashes; grey* < EA *p̥VIV
OCH : 𤇗 *L̥ə soot < ST

AA *laj *fruit*
ALT *ójle (~ -i) *small fruit*
OCH 棣 lhəts (~ -js, ~ -ps) *wild plum* (SAS)

AA *mu:l / *mɔ:l *plant, dibble*
ALT *mált'u *to dig, bury*
OCH 埋 *mrə: *to dig in, bury* [coincidence?]

AA *mV? *spirit*
ALT *maji *protecting spirit* < EA ???
OCH 魔 mhā 'ghost, devil' [Wei]

AA *n̥V:m *child*
ALT *n̥ablu(-ǰV) *young, child* < EA *n̥VwV (IE)
OCH 妊 n(h)əms *pregnant* [Han]

AA *hVc *to die, finished*
ALT *ēč'o *be weak, exhausted* < EA (Drav) *asái
OCH 殪 ʔɪts *to kill*

AA *ʔVk *fat, big*
ALT *égó *big, many*
OCH 益 ʔek *to add, increase*

AA *ʔVk *elder sister's husband*
ALT *čk'a (~ -o) *elder sister*

OCH 姪 ʔrāks *name of a wife's sister in relation to another wife's sister* [Han] (SAS compares with 姑 kā *father's sister, aunt, mother-in-law*)

AA *Kə- ruh / *roh, *basket*

ALT *k'ure *basket* < EA

OCH 筥 kraʔ *'round basket'* (SAS)

AA *dʔik / *dʔi:k *slave, servant*

ALT *dāgì *enemy, alien*

OCH 敵 *dhe:k *enemy* (SAS)

AA *TVI *wall, house*

ALT *dala (~ -e-) *a k. of building*

OCH 都 tā *outer city, settlements outside of city wall ??*

AA *tɔ(:)l *tradition*

ALT *dòru *rule, permission*

OCH 典 tārʔ *to direct*

AA *tu:m / *to:m *ball*

ALT *t'jama *ball, round, curved*

OCH 搏 dhōn *round, make round; collect* [LZ]

AA *tiər *termite, cicada*

ALT *dile (~ t-, -l-) *a k. of insect or worm* < EA (Drav) *tēl- *scorpion*

OCH 蟬 d(h)ar *'cicada'* [LZ] < ST

AA *tVr, *tVl *wife*

ALT *teÍV *female* < EA (Drav) *ta|- *mother, female*

OCH 娣 Ł(h)ājʔ *younger secondary wife*

AA *wVt *bird, duck*

ALT *bādo *a k. of bird (quail, dun-bird)*

OCH 驚 pets *a k. of pheasant* [LZ] < ST

III. Austro-Asiatic / Altaic / (Old Chinese) / Austronesian

AA *sac <i>meat</i>	AN *Sesi, *isi? (EAD) <i>flesh, meat</i>
ALT *sési <i>deer, wild animal</i>	
OCH ʒ(h)ajs, ʒ(h)ej <i>bone with meat on</i> [L.Zhou]	
AA *cV _k <i>deer</i>	AN *sakeC (EAD) <i>munťjac, barking deer</i>
ALT *sǐgò, *sūku <i>deer, horned animal</i>	
AA *ca:k <i>cut</i>	AN *sak=sak <i>hack, chop into pieces</i>
ALT *sək'a (~ z-) <i>sharp instrument, to cut, split</i>	
AA *c[iə]k <i>ear, crest</i>	AN *pucek, *qapucuk <i>peak of a mountain</i>
ALT *č'[ja]k'i <i>temple; ear</i>	
AA *cV _r <i>to thread</i>	AN *CuSuR <i>string together, as beads</i>
ALT *čjuru <i>string, to string</i>	
AA *mV _h <i>fat, grease</i>	AN *SimaR <i>grease, oil, fat</i>
ALT *majV <i>fat</i>	
AA *mi:r <i>to crawl</i>	AN *kamaŋ <i>creep, crawl</i>
ALT *mjolk'o <i>to creep, slide</i>	
AA *bʔəŋ / *poŋ <i>hole</i>	AN *baŋ=baŋ <i>cavity, pit, den, excavate</i>
ALT *p'əŋi <i>to gape, hole</i>	
AA *pV _ŋ <i>flower</i>	AN *buŋa <i>flower</i>
ALT *poŋa (~ *p'-) <i>bud</i>	
AA *bʔər / *bʔuar <i>mouth, lip</i>	AN *biR=biR <i>lip</i>
ALT *p'iro (~ b-) <i>beak, nose</i>	
AA *tɪŋ / *dʔəŋ <i>to know, hear</i>	AN *diŋa, *liŋa; *diŋeR <i>hear, listen</i>
ALT *t'uje <i>to inform</i>	
AA *pV _ŋ <i>tiger, bear</i>	AN *baRuəŋ <i>bear</i>
ALT *bjonV <i>a k. of predator; *p'jun[e] 'a small wild animal' < EA (Drav *vəŋ-) ???</i>	

AA *tojh *breast* AN *du=duq *chest, breast*
ALT *t'ōli (~-e) *breast; *dile 'udder'*

AA *ləń *fāt* AN *laña *oil, vegetable oil*
ALT *lemV *meat, fat (of animals)* < EA *lemV

AA *sa:k / *cə:k *look for* AN *bajak (EAD) *know, understand; ask, inquire*
ALT *sogú *to search, choose* (with a weak EA etymology)
OCH 擇 Ł(h)āk *to choose, select*

AA *ʒVr *sour* AN *qasiRa *salt*
ALT *sũre *sour, acid, stinking*
OCH 酸 *sōr *sour* < ST

AA *pVj *hill* AN *bay=bay *beach, shore*
ALT *bājV *rock*
OCH 陂 paj *slope, bank, dyke*

AA *CəCʔiaŋ *bone* AN *suŋu (Demp) *horn*
ALT *sìŋù *bone; shin bone* < EA *c'ijū

AA *cVp *pinch* AN *atip, qatip *pinch together*
ALT *č'íp'ú *to press (with fingers), pinch* < EA *cipV

AA *ʒVp *sew* AN *rajup *stich*
ALT *sǰābi *to sew, perforate, awl* < EA *[s]VjwV