

CHAPTER FIVE

CLASSIFICATION OF ALTAIC LANGUAGES AND DATING
OF PROTO-ALTAIC

To demonstrate the genetic subclassification of Altaic we shall take the list of matches between Altaic subgroups in the realm of the basic vocabulary:

Item	Turkic	Mongolian	Tungus-Manchu	Korean	Japanese	PA
all	*büt-			*mòt-		*mút'ì
all	*Kop	*kow	*kupukte			*köp'V
ashes		*hüne-sü	*pulne-			*p'ólne
bark	*Kāpuk			*kàph-	*kapa	*k'áp'à
bark	*Kar	*kajir(a)-				*k'éra
bark	*Kirtíl	*körü-sü	*xura-hta			*k'jürú
belly		*keweli	*kepel-			*kép'V
belly				*pái	*pàrá	*p'èjló
bite		*kem-			*kàm-	*kèma
black	*Kara	*kara			*kùruà-	*kàru
blood		*či-su			*tí	*čjūnu
bone		*ja-su		*s-pjó	*pòniá	*p'èjné
breast		*čeyeži	*ča(i)žan	*čjáč	*ti(tí)	*č'ájžV
breast		*kökön	*kuku-n			*kòk'è
burn	*jak-		*deg-že-gi-	*thà-	*dák-	*dèkà
f.-nail		*kimul-su		*kom(h)		*k'juml[e]
f.-nail				*tòph	*túma-i	*t'júp'ó
cloud				*kúrùm	*kùmua	*k'òlmV
cold		*köji-ten	*xinjū-			*k'jójno
cold	*sogi-k		*šig-			*šjogo
come	*geł-				*kè-	*gèle
die		*bür-il-	*bu(r)-			*būri
dog	*it		*ṅinda		*inú	*ṅindó
drink			*um(i)-	*mà-		*umV
dry	*Kūri-	*kawra-			*kává(ra)-k-	*k'jóbarV
ear	*Kul-kak			*kúi		*k'ujlu
earth		*sirayu		*hàrk		*šjári

Item	Turkic	Mongolian	Tungus-Manchu	Korean	Japanese	PA
eat	*jē-		*žē-p-	*čā-		*žē
egg	*jumurtka	*ömdege	*umūkta			*úmu-tki
eye		*ni-dü	*ńia-sa	*nú-n	*mà-	*ńià
fat	*jāg	*eyü-kü				*jāgi
fat			*ximū-	*kírím		*k'járme
feather	*jüg		*dekte-			*d[é]gi
feather		*hö-dün			*pánái	*p'úne
fire				*pír	*pə-i	*p'ore
fish		*žiya-			*(d)íwuá	*dīagi
fly		*degde-	*deg-			*tēga
foot			*palga-n	*pár	*pànkì	*pālgà
full	*döl-		*žalu-			*čálo
full			(*čak)	*čhá-		*č'áko
full			*milte-		*mìt-	*milt'e
give	*bēr-		*bū-			*bīór[é]
give				*tā-	*átá-pá-	*jātá
go			*ņene-	*nàń-	*ín-	*ņéni
good				*tjōh-	*dè-	*dīoge
green	*gōk	*kōke				
green		*nogo-γan	*log-			*liōga
hair	*Kil(k)		*xínŋa-		*ká-i	*k'íla
hair		*hü-sü	*puńe-			*p'úne
hand	*el		*ńāla			*ńāli
head	*baič			*màrí		*mélžu
hear			*döldi-	*tìd-		*tūldi
heart			*miańam	*māńām		*mīónù
heart	*jürek	*žirüke				*žūr(V)k'e
horn		*eber		*s-pír		*jop'érV
I	*be-	*bi	*bi		*bà-	*bì
I				*nà	*a-	*ŋa
know			*sā-		*sír-	*sāri
leaf	*japur-gak	*labči		*níph		*liap'[à]
lie	*ja-t-		*dē			*dē
lie		*keb-			*kəjə-	*kejbe
lie				*nū-b-	*ná-	*né
liver	*biagir		*pākin			*piāki
long			*ńōli-		*nàn-kà-	*ńōla
long	*urí-n	*ur-tu				*juro

Item	Turkic	Mongolian	Tungus-Manchu	Korean	Japanese	PA
louse		*sirke			*sírám(u)i	*sǐǎjǐrǐ
man	*ēr	*ere				*ári
many				*mān(h)	*manai-	*mana
meat				*sǎrh	*sisi	*šǐǎlǐ
moon				*tǎr	*túkui	*t'ǐǒlgu
mouth		*ama-n	*am-ŋa			*ámo
name		*nere		*(n)irh-		*nére
neck	*bōjn		*moŋa-n	*mjə-k	*nəmpV	*mójno
new			*nebi		*nípí-	*nébi
new	*jani	*sine		*sái		*zèjǎna
night			*dolba		*duà	*dǔle
nose		*ka[m]ar	*xoŋa-	*kóh		*k'ǐǒŋa
not			*ā(n)-	*àn-	*nà-	*àni
not		*e-se	*e-			*e
one	*bir				*pitə	*bǐjuri
rain	*jag-			*pí		*p'ǐǎge
red		*hula-γan	*pula-	*pǐrk-		*puli
road		*mör-			*mítí	*mjóri
root		*ündü-sü	*ŋǔnte		*mətə	*ŋǔnt'è
root		*hižǎ-γur	(*pužuri)			*pǐǒži
root			*pule-	*pǐrhǎi		*p'ǔli
round			*murV		*máré	*múra
round			*toŋal-	*toŋkor-		*t'ǒŋké
round		*tob-			*tǔmpú-ra	*t'ǒp'ú
round	*deg-	*tögöriḡ				*teḡá
sand				*mòr'a'í	*mana-n-kua	*máro
say		*kele-		*kǎró-		*k'ǐǎli
seed	*urug	*hüre				*p'ǔri
sit		*sayu-			*súwá-	*šǐǎbu
skin				*kàph-	*kapa	*k'ǎp'à
skin	*jǐn		*nansa			*náne
sleep	*ū-		*ŋuja		*úi-	*ŋúju
small		*öcü-	*ŋüši-			*ŋǒjcu
small		*žižig	*nisi			*nǐŋci
stand	*dur-				*tát-	*čúra
star	*jul-dur'	*ho-dun		*pjǐr	*pésí	*p'ǐǒlǒ
stone	*diǎl'	*čila-γu	*žola	*tǒrh	*(d)ísi	*tǐǒlǐ
sun			*sigu-n	*hǎi		*sǐǒgu

Item	Turkic	Mongolian	Tungus-Manchu	Korean	Japanese	PA
swim		*oji-mu-			*əjənk-	*əje
tail	*Kudruk		*xürgü	*s-kòrí		*k'júdo
that	*Ti-	*te-re	*ta-	*tjə		*t'a
that		*ča-	*čā-			*č'a
this		*e-ne	*e-			*é
this	*gō			*ki	*kó-	*kō
thou	*se-		*si		*si	*si
thou				*nə	*ná	*ná
tongue		*kele	*xiljü			*k'jǎli
tongue				*hjə	*sitá	*sǐjri
tooth				*par	*pa	*pala
tooth	*síl	*si-dü				*sǐla
tree		*mo-du	*mō			*múro
two		*žiw-rin	*žube	*tubu		*tjubu
warm	*jili-g	*dula-yan				*dǐulu
warm				*tǎ-	*atà-	*ot'a
water			*mū	*mír	*mí-	*mǐuri
water	*sib	*u-su				*šjuba
we	*bi-í	*ba	*bue	*ú-rí	*bà-	*bǐ-
what	*nV	*ja-yu-			*nV̄	*njV
white	*siarig			*hǎi-	*siruà-	*sǐajri
white		*čaga-yan	*šāk-			*šāk'a
who	*kem	*ken	*xia			*k'a(j)
who			*njū	*nú-		*njV
woman		*eme		*ámh	*mía	*ěme
far	*ira-				*pàrú-ka	*p'irá
heavy				*mì-	*óm(p)ə-	*ámbe
near	*jagu-		*daga			*dǎgá
near	*jAki-				*tikà-	*dǎk'ì
salt	*dūr	*dabu-su				*čjoberV
short		*hokar	*poKa-			*pǐük'ì
snake		*mogaji	*mūkū			*mǐuko
snake				*pǎjam	*pàim(p)V̄	*p' [ò]jamV
thin				*kánǎr-	*kəmá-	*k'ěno
thin		*nari-n	*ner-	*jir-p-		*nèra
thin		*nim-gen	*niambu-			*njombu
wind	*jel	*sal-ki				*zǎli
worm	*Kürt	*koro-kai				*k'jóro

Item	Turkic	Mongolian	Tungus-Manchu	Korean	Japanese	PA
year		*oj	*ańŋa			*áńu
year	*jil	*žil			*tə̀si	*d̥ilo
year			*sē	*s̄ir		*zēra

This list is basically the same as given in Starostin 1991 (pp. 25-63, 85-104), but with some additions and corrections added during the years of work on the Altaic dictionary, which have consequently resulted in some calculational changes, albeit statistically insignificant. The average percent of matches revolves around 20, which gives us the date of split of Proto-Altaic at around the end of 6th millennium B.C. We see an increase up to about 25% between Turkic, Mongolian and TM, and an increase to 33% between Korean and Japanese, which would speak in favour of two basic subbranches of Altaic.

However, if we look at the figures in more detail and take into account the division between 35 more stable items and 65 less stable items, proposed by S. Y. Yakhontov, the picture appears to be somewhat more complicated.

Language pairs	Matches in the standard 100 w.-list	Matches in Yakhontov's modified 100 w.-list	Matches in Yakhontov's 35-wordlist	35/65 w.list ratio
TuMo	25	24	11	31 / 20 : 1.55
TuTM	25	22	10	29 / 18 : 1.61
TuKo	17	13	5	14 / 12 : 1.17
TuJap	19	19	7	20 / 18 : 1.11
MoTM	29	30	11	31 / 29 : 1.07
MoKo	18	17	8	23 / 14 : 1.64
MoJap	22	17	9	26 / 12 : 2.17
TMKor	23	23	9	26 / 22 : 1.18
TMJap	22	20	8	23 / 18 : 1.28
KorJap	33	30	11	31 / 29 : 1.07

This chart shows us that while the overall 35 / 65 wordlist ratio is > 1 in all cases (the situation which indicates genetic relationship, meaning that the rate of matches within the most stable 35 word range is higher than the rate of matches within the less stable 65 word range), in two cases - Mongolian-TM and Kor.-Jpn. - it is dangerously close to 1. Lexicostatistically this may indicate the borders of ancient dialect zones within Proto-Altaic, suggesting that Tungus-Manchu does not really

constitute a unity with Turkic-Mongolian, and throwing some doubts on the genetic unity of Korean-Japanese.

Additionally it provides an explanation why the genetic situation within Altaic looks somewhat different from that within, e.g., Indo-European - which was the main reason for the whole anti-Altaic criticism. Altaic appears to be different from Indo-European in two main respects:

- a) it is somewhat older than Indo-European: while the split of Proto-Indo-European (or Proto-Indo-Hittite) can be dated to the 4th millennium B.C., the split of Proto-Altaic must have occurred at least a thousand years earlier;
- b) whereas the subbranches of Indo-European are rather old (e.g., Balto-Slavic may be dated around the beginning of the 1st millennium B.C, and Indo-Iranian - by the verge of the 2d and 3d millennia B.C.), the subbranches of Altaic are considerably younger: Turkic - beginning of our era, Mongolian - around the 10th century A.D., Tungus-Manchu - around the 4th century B.C., Japanese - around the 5th century A.D., Korean - around the 11th century A.D. Furthermore, whereas the oldest texts in ancient Indo-European languages are attested quite early, the written monuments of Altaic languages date back not earlier than to the 8th century A.D. This all creates an impression of a much more distant genetic relationship between Altaic languages than that between Indo-European languages. Consequently - basically due to the absence of archaic attestation - Proto-Altaic is somewhat more difficult to reconstruct than Proto-Indo-European. It is also quite possible that some other branches of Altaic might have existed, but they could have been wiped out by later waves of migrations of Altaic (and non-Altaic) languages.

The overall distribution of lexical isoglosses confirms the above classification, but yields some additional information on the dialect distribution within Proto-Altaic.

The core of the common Altaic vocabulary is constituted by etyma reflected in Turko-Mongolian (at least in Turkic or Mongolian) and in Korean-Japanese (at least in Korean or Japanese) - with or without Tungus-Manchu parallels. The number of such roots within the present volume is 1841; most of them (1553) are also reflected in Tungus-Manchu.

There are, however, two other lexical groups:

- a) Turkic-Mongolian roots with Tungus-Manchu parallels (615); without Tungus-Manchu parallels (57)

- b) Korean-Japanese roots with Tungus-Manchu parallels (195); without Tungus-Manchu parallels (23)

We see thus that Tungus-Manchu occupies a specific position within the Altaic family, sharing a large number of isoglosses both with the Turkic-Mongolian and the Korean-Japanese branches. In the dictionary we call the former “Western isoglosses” and the latter, “Eastern isoglosses”. Historically such a situation may be explained by a “central” position of Tungus-Manchu among the Proto-Altaic dialects. At the same time, one can also not exclude a scenario of later prehistorical borrowings (already after the split of Proto-Altaic, but before a wide geographical separation of Turko-Mongolian and Tungus-Manchu, on one hand, and Tungus-Manchu and Korean-Japanese, on the other).

The position of Tungus-Manchu within Altaic thus resembles the position of Greek within Indo-European: due to its original “central” geographic location, Greek shares a large number of isoglosses both with European languages (primarily Italo-Celtic) and with Indo-Iranian languages.

The Proto-Altaic nature of almost a thousand “Western” or “Eastern” isoglosses mentioned above is questionable; nevertheless we decided to include them into the dictionary because potentially any of them may turn out to be common Altaic - there is always a chance that, e.g., a Korean match for a Western isogloss exists but has not yet been recovered, or a chance that an archaic etymon reflected in Korean-Japanese has been lost in Turko-Mongolian. We must stress that phonetically and morphologically these isoglosses behave just like all other common Altaic roots.

To sum up: Proto-Altaic split into three branches, viz. Turko-Mongolian, Tungus-Manchu and Korean-Japanese, around the 6th millennium B.C. Tungus-Manchu must have occupied a central dialectal position, which explains its shared isoglosses both with Turko-Mongolian and Korean-Japanese.

Two subbranches - Turko-Mongolian and Korean-Japanese - in their turn, had split rather early, around the 4th millennium B.C. However, reconstructing Proto-Turko-Mongolian or Proto-Korean-Japanese would in fact be almost equivalent to reconstructing Proto-Altaic, because of small time span separating those units from the original proto-language. There is still some doubt about the existence of common Korean-Japanese: the specific similarities between these two subbranches might be due to secondary dialectal interaction.

The next splits occurred already closer to our era: first the split of Tungus-Manchu, next the split of Turkic, Japanese and Korean dialects.