

The relevance of Cushitic for the linguistic history of East Africa

Maarten Mous, Christian Rapold, Ahmed Sosal

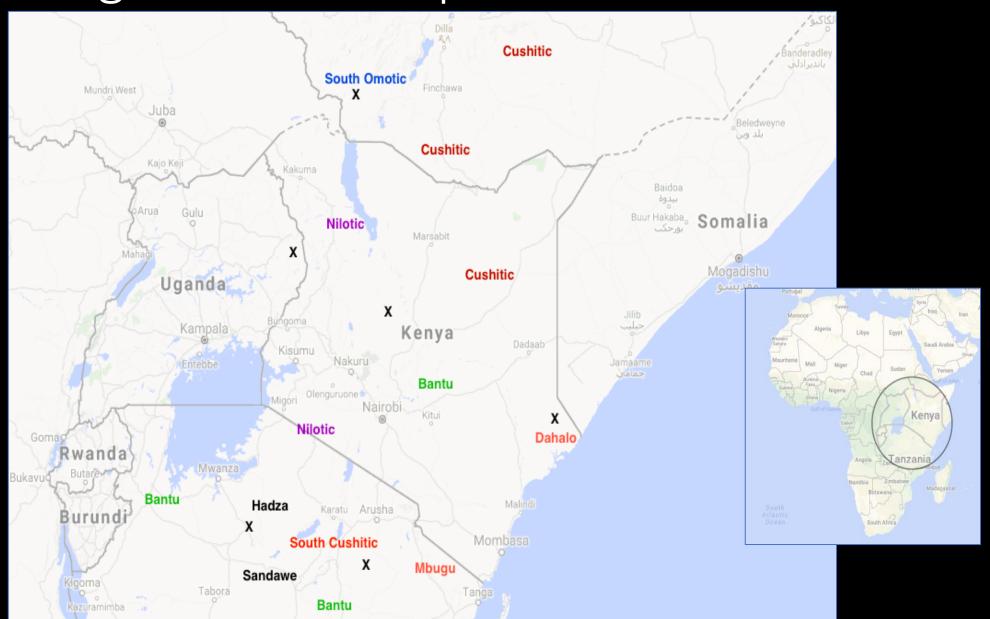
Content

- Introduction
- Cushitic pluratives and a link between
 Tanzanian Cushitic and East Cushitic
- Pre-Oromo link to Tanzanian Cushitic
- Tanzanian Cushitic present earlier
- Other results Past, Present and Future



Introduction

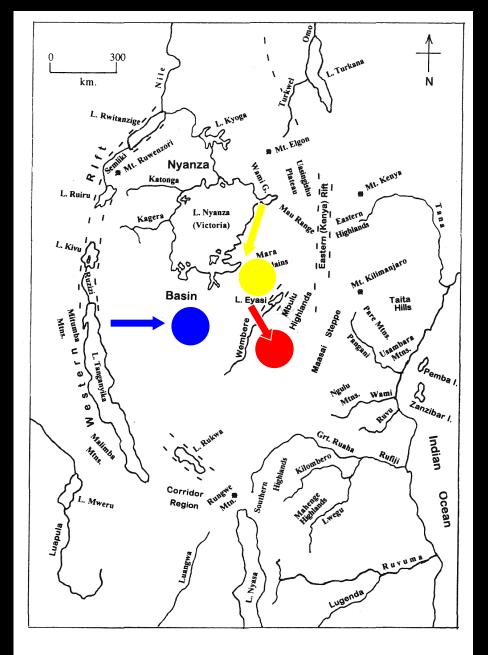
Linguistic landscape of East Africa



School book view of EA history

- Southern Cushitic 4000 BP
- = Pastoral Savannah Neolithic culture
- Eastern Bantu 1500 BP
- = introduction of iron; pottery styles
- Southern Nilotic 1000 BP
 - = Elmenteitan culture

Before these migrations: Huntergatherers; stone age culture; KhoiSan languages (Hadza and Sandawe)



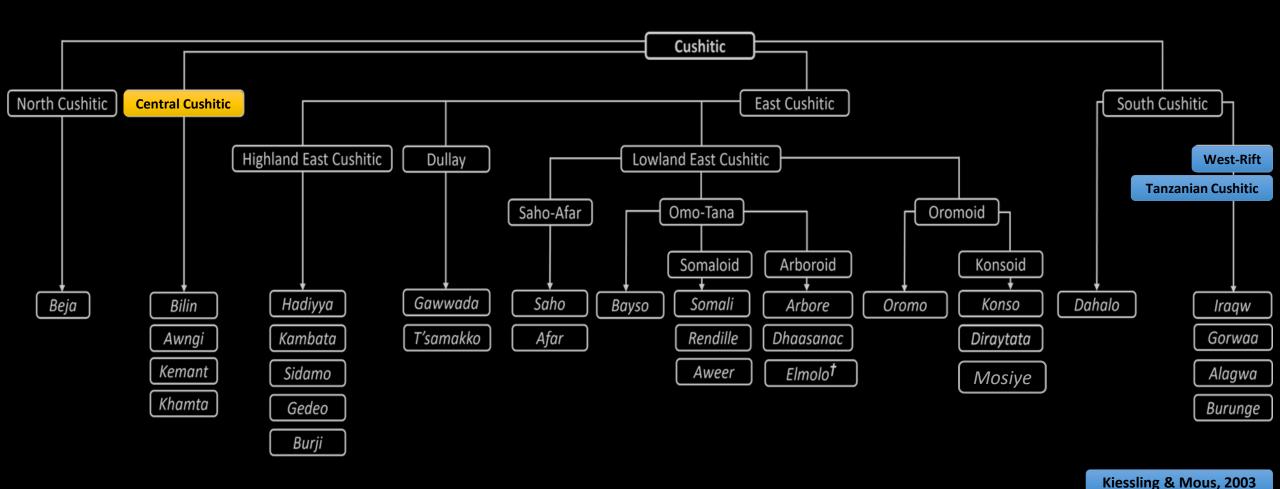
Map 3. The geographical setting of the Early Classical Age

Linguistic history of East Africa project

- Reach new state-of the-art of EA linguistic history and AFTER the project discuss that with relevant other disciplines.
- Establish lexical and phonological reconstruction of Cushitic
- Re-examine the lexical influence of Cushitic on Bantu languages and what it tells us about cultural changes and in subsistence
- Details of the history of the big migrations into East Africa
 Today we discuss: Several Cushitic movements into East Africa
- Reconstruct histories of contact
- Examine possibilities of unearthing earlier language families
- We are just over 2,5 years into a 4-year project

Cushitic pluratives and a link between Tanzanian Cushitic and East Cushitic

The Cushitic languages included in this study



Inventory of Cushitic plurative suffixes

| Beja | Burji I | Kambaat | Mosiye | Gawwada | Ts'amako | Hadiyya | Rendille | Konso | Diraytata | Gedeo | Bayso | Dasenec | ł Elmolo | Oromo | Sidaama | Saho-Afa | Iraqw | Agaw | Arbore | Aweer | Somali | Dahalo | Gorwaa | Alagwa | Burunge |
|--------------|-------------|---------|--------|-------------|----------|-----------|-------------|--------|-------------|--------|--------------|-----------|---------------|---------------|--------------|----------------|---|----------------|--|-----------------------------|-------------|--------------------------|-------------------------|----------------|---------------|
| -a (> -ya /- | -yyee/yyaa- | ·Cáta · | -Ca | -aɗɗe, -iɗd | -aɗɗ-e | -a | -aC | -a | -a | -Ca | -VVC | -a | -a | -á | -a | -a, (> -wa | , -a | -a, aa | -a | -nyi | -aC | -a | -a/-á /-aa | -a | -a/-aa |
| 2 | -Vn(n)V (-n | annu | -ууа | -ámme | -inn-e | -uwa, -uw | -(V)nye | -Caa | -Ca | -eeyye | -V-CC-o | -(C)u | -ay-ne | -iyye, -eyyi | i-Ca | -VC | -ay | -uu, -w | -Ca | -ny-oobi | -aay | -aCa, -uCa | a -aCu | -aCaa | -aCa |
| 3 | - | aakkáta | -wwe | -C e | -ann-e | -aʔa | -е | -ayaa | -yya (-iyya | -ùwa | -allo | -to (-tu) | -ay (-y) | -owan, - o | -eeyye | -wa | -iya? | -iw, -d-iw | -ay | -Ci | -aan-yo, - | c -aCi, -aCC | Ci - <ee>-aCı</ee> | ı -aCu | -aCu |
| 4 | | | -aɗɗa | -áane | -n-e | -eʔe | -Ce | -iyyaa | -awwaa | -omma | -aal | -am/-aam | -ey | -ata (-ta?) | -uwa/-ba/ | '-oowa, -u | v-aawe | -aat-än | -té | -t-oobi | -iya (-ya ? |) -udda | -iyoo | -ayoo | - <ee>_a</ee> |
| 5 | | | | | | -070 | -o / -yó | -wwaa | -aɗa | -e | -laal | -im, -mu | -ma | -oota, -ota | -adda/-ud | ı-ta | -?i | -t, -Vt, -tV | -mmé | -yaami | -yǎw | -addi | -ay, -áy | -aawee | -yayu |
| 6 | | | | | | -0 | $C_1V_1C_2$ | -ɗaa | -aɗɗa | -VCa/e | -ool | -C-V | -e | -eeti | -óta | -it | -a? | -t-ay | -mé (-má | -ti/-t i | -daa | -uuta, -ut | t≀-náy | -(a)a?i | -awee |
| 7 | | | | | | | | -ɗɗaa | -amma | -anna | -le | -i | -C-V | -C-een, -ee | -te | -t-it | -du | -t-an, -t-uı | r-má | -i/- i | -doo, -too | -uté | -iya? | -aCaʔu | -a?ee |
| 8 | | | | | | | | -alla | -an-a | -allo | -li | -onu/-anu | ı -no, -ne ar | 1-an, -aan | -Vma | -ut (?) | -ma? | -t-ɨk | -omá | -yalúè | -amɨ (< *- | a-atti | -aawee | -adu | -a?i / -a?iii |
| 9 | | | | | | | | | -ala, -alla | -oole | -eel | -u (-o ?) | -nu | -00 | -re, -ri | -ot, -oota | -eemo/ <e< td=""><td>(−i</td><td>-a?ame (*</td><td>-<mark>-(i)yaali (-</mark></td><td>i-etɨ, -tɨ</td><td>-to</td><td>-aʔi, -aʔ(!</td><td>-dii</td><td>-eeʔi</td></e<> | (−i | -a?ame (* | - <mark>-(i)yaali (-</mark> | i-etɨ, -tɨ | -to | -aʔi, -aʔ(! | -dii | -eeʔi |
| 10 | | | | | | | | | | -ile | -l | -s | -0 | -oolee, -oo | :-anna/-án | it-te, -it-t-؛ | i -eeri/ <ee></ee> | -an | -mó | -či/-ği (-ʃi) | -iiņ | -Cama | -aaCiʔi | -eema | -aCi |
| 11 | | | | | | | | | | | -dʒolaal, -d | dʒool | -u | -lee | -0 | -ut-te, uut | i-e | -an-t | -é | C ₁ V- | -an | -ma, -me, | · -(a)du | -eemi | -aru/-iru |
| 12 | | | | | | | | | | | | | | $C_1V_1C_2$ - | -V(I)IV: -al | l -ti | -0 | -la, -li, -l-ä | ı-n | -bi | -aan | -Cemu | -eema? | -eemoo | -mee |
| 13 | | | | | | | | | | | | | | | -V(I)IV: -ul | a- | -u | -k-än | -to-nó | -t-oo-bi | -o/-yo | -e | -(a)ma? | -eeraa | -?ami |
| 14 | | | | | | | | | | | | | | | | | angw | -ka | -ó | -b-ti | -oyin (-oy | - <mark>-aCCe, -a</mark> | <mark>C</mark> -eemoo/- | -eeri | -eemo |
| 15 | | | | | | | | | | | | | | | | | | | C ₁ V ₁ C ₂ -mé | -b-či/-ği (- | (-Co | -i | -eeri | -ee | -ara |
| 16 | | | | | | | | | | | | | | | | | | | | -oobi | -yal-o | -ni | -ee | -a(a)Cee | -eera |
| 17 | | | | | | | | | | | | | | | | | | | | -oob-ti | -yaal; -yaa | a -o | -aCee | <ee>_i</ee> | -eeri |
| 18 | | | | | | | | | | | | | | | | | | | | -oobči/- | c-bo | -u | -i | -inaa | -aCeeri |
| 19 | | | | | | | | | | | | | | | | | | | | | -iin | -aǧǧu, -ag | g -00 | -00 | -ee |
| 20 | | | | | | | | | | | | | | | | | | | | | | -uka, -uke | e, -u, -ú, -u! | - <ee>_oo</ee> | -aCee |
| 21 | | | | | | | | | | | | | | | | | | | | | | | -aangw | -u | -i |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | - <ee>_i</ee> |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | -0 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | - <ee>_o</ee> |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | -u |

Types of plurative suffixation

| PLV form | Example | | | | | | |
|--|-----------|--------|------------------|--------|--|--|--|
| | Language | SGV | PLV | Gloss | | | |
| Vowel-Based suffix VB | Diraytata | laf-to | laf- a | 'bone' | | | |
| a vowel -V | | | | | | | |
| Consonant-Based suffix CB | Bayso | lef | lef- aal | 'bone' | | | |
| vowels and a consonant -V(V)C(C)-V(V) | | | | | | | |
| Reduplication RD | Rendille | laf | láf- áf | 'bone' | | | |
| reduplication or gemination of the last syllable/consonant | Boni | laf | laf- f -ə | 'bone' | | | |

Reconstructed plurative suffixes

Cushitic

*-a(a), *-(V)C-(V), (*-w-, *-y-, *-m-, *-n-, *-t-, *-l-)

Dullay

*-aan-e,

*-add-e

North Cushitic (Beja) *-a Central Cushitic (Agaw) *-a (+CB)

East Cushitic

*-a, *-aC-aa, *-aww-aa, *-ayy-a, *-aam-a, *-aan-a, *-at-a, (*-eeti), *-all-o

Highland East Cushitic

- *-a (coll.),
 - *-C-a,
- *-uw-a,
- *-eeyy-e,
- Vmm-a,
- *-ann-a,
- *-at-a,
- *-all-o,
- *-0

Lowland East Cushitic

*-a, *-aww-aa, *-ayy-a, *-aam-a, *-aan-a, *-at-a

Oromoid

*-a, *-aww-aa, *-ayy-a, *-aan-a, *-at-a

Konsoid

- *-**a**, *-**C-aa**, _*-ayy-a,
- *-aɗɗ-aa

Omo-Tana

*-aan-o, ***-aC-aa**, *-ayy-a, *-aam-a, *-all-o (Proto-Eastern-OT), *-oo, *e.

Arboroid

***-a**,
*-aww-aa, *-ay,
*-aam-a,
*-an-o,

*-o, *-u, *-e

*-a**C**, *-ay-V, *-aan, *-eti, *-yaal-o, *-o

Somaloid

Tanzanian Cushitic

- *-aa,
- *-aC-aa,
- *-aaww-ee,
- *-ay (Coll.),
- eem-aa,
- *-eem-oo,
- *-an (Adj.),
 - *-00,
 - *-u!,
 - *-ee,
 - *_;
 - (*-en),
 - *-eeri,
 - <u>*-aC</u>-ee,
- *-aC-u

Hypothesis: Proto-Cushitic

Independent pluralization strategies

- suffix *-a(a)
- Reduplication/gemination

PL doubling for reinforcement

- *-(V)C-a(a)
- *-C-C-a(a)

6-Consonant-Based forms?

*-y-, *-w-, *-t-, *-m-, *-n-, *-l-

Hypothesis: CB renovation

Retention

| *RD + (*VB) | → RD+VB |
|-------------|------------------|
| *VB | \rightarrow VB |

Renovation

*6-CB moribund → (utilized *RD mechanism) +(VB) → renovated CB

- accounts for possible Afroasiatic links (cognates)
- accounts for the synchronic variation in the number of PLVs
- the *6-CB limits the revivable CB suffixes utilizing the RD mechanism
- NC Beja lack of reduplication PLV blocked the CB renovation
- the shared TC and EC CB renovations suggests shared history

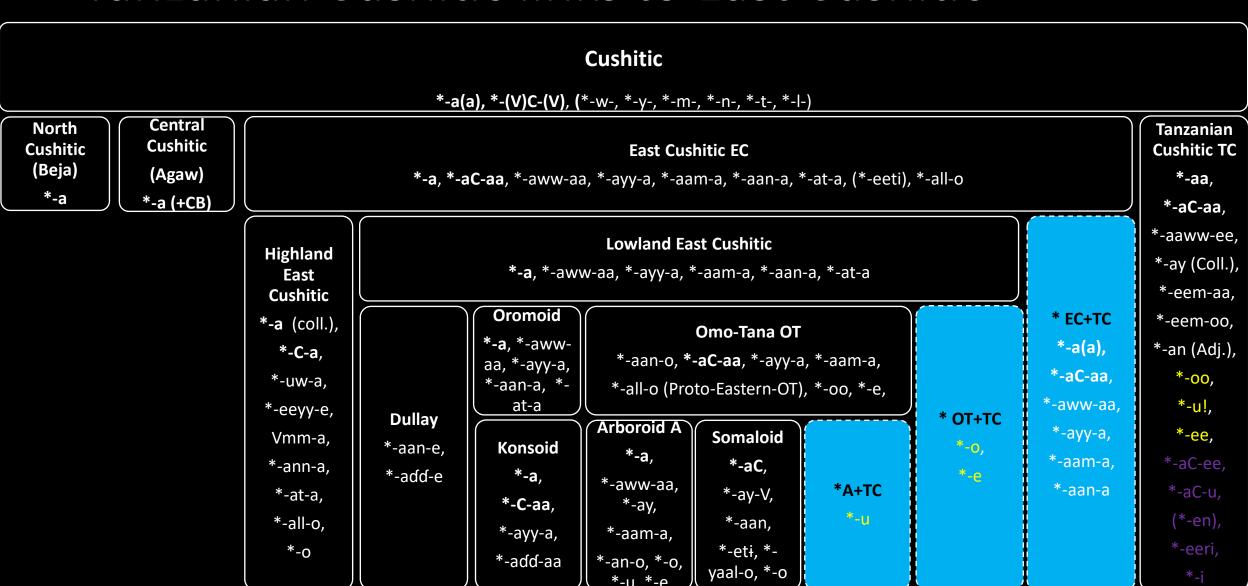
(Tanzanian) South Cushitic links to East Cushitic

 Kießling's (2001) diagnostic PLV isomorphs (Proto Omo-Tana from Corbett & Hayward (1987)

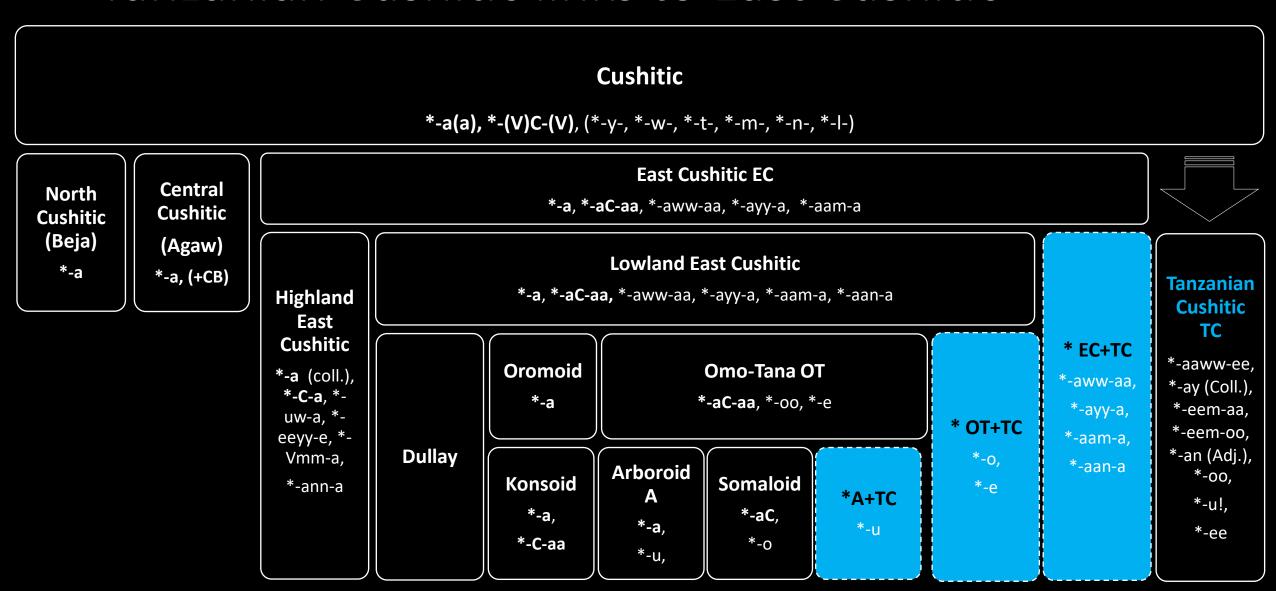
| Proto Omo-Tana POT | Proto Tanzanian Cushitic |
|--------------------|---------------------------------|
| *-Ca(a) | *-aCa |
| | *-00 |
| *-u | *-u |
| *-e | *-ee |
| *-aani | *-an (ADJ PL) |

- They have no parallels in Agaw or in Beja
- Are they POT/PEC innovation or PC retentions?

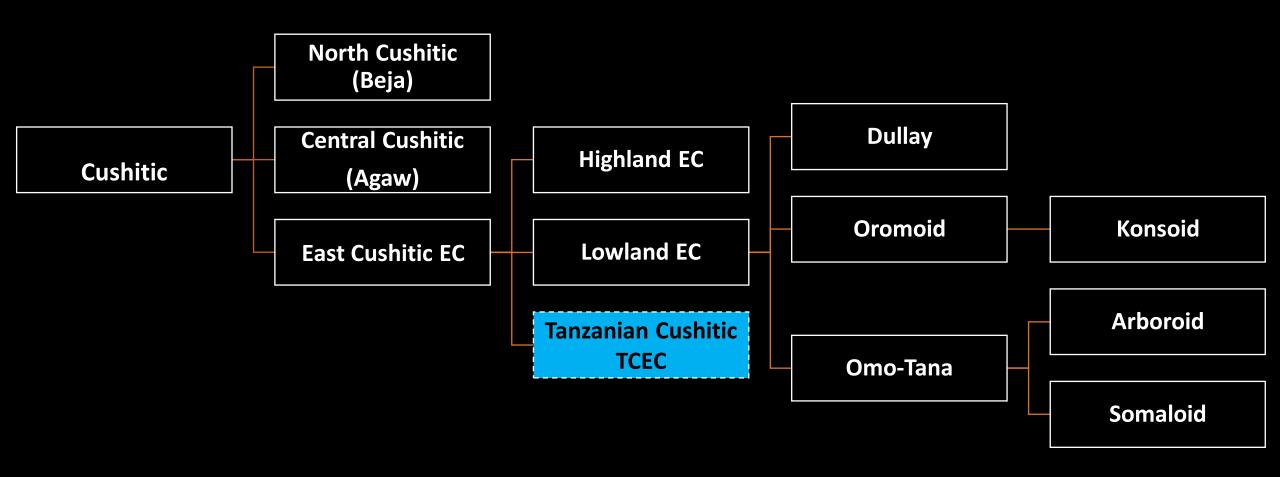
Tanzanian Cushitic links to East Cushitic



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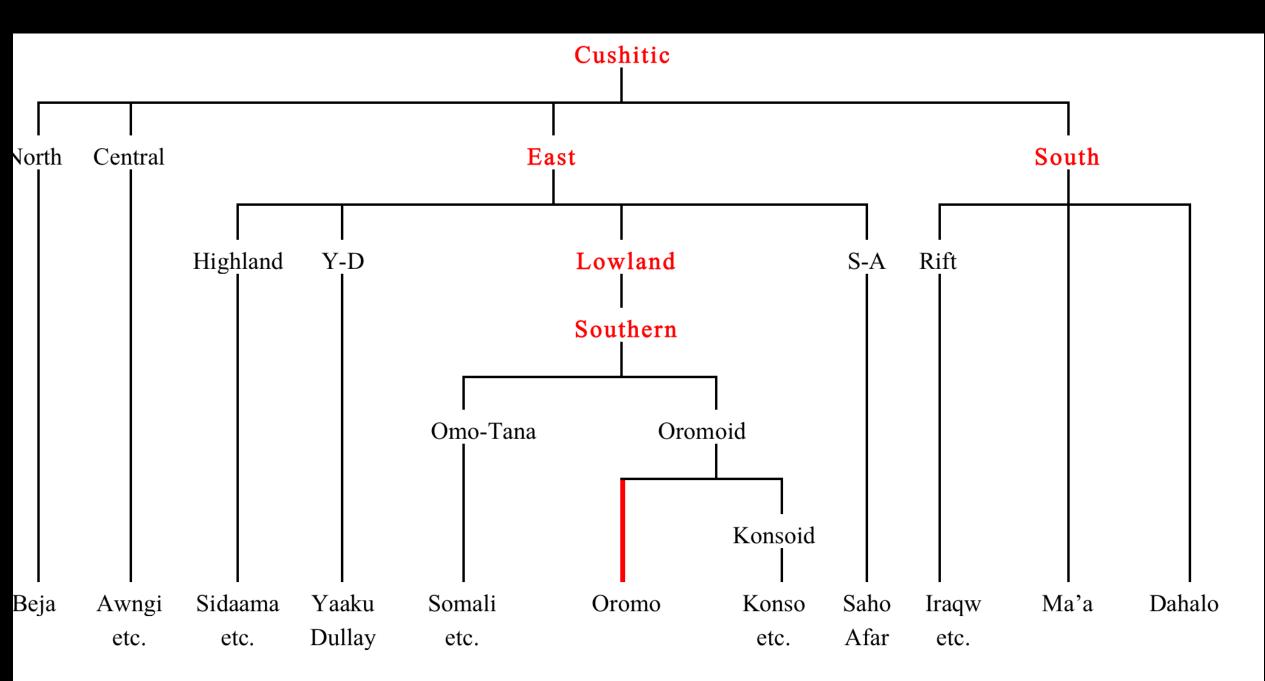
Revised Cushitic subgrouping based on PLV evidence



Pre-Oromo link to Tanzanian Cushitic

Historical implications of Tanzanian Cushitic

P-TanzC *4 : P-EastC *1

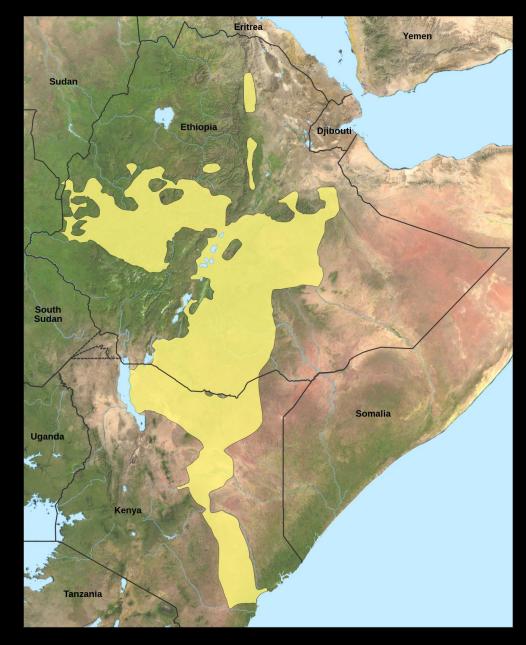


Proposals

1. Some P-TanzC *4 are secondary

2. These are linked to Pre-Oromo

Oromo



P-TanzC *4a? 'to love, like, want'

: Oromo ja:I- 'to love' < P-EastC *gefI- 'id.'

P-EastC > Oromo

P-EastC *gefI-

ge?I-
$$\varsigma > ?$$

$$g$$
?I- palatalisation $g > J / _ {i, e}$

Or.
$$a:I- ?>V: /\{ C, C_{} \}$$

P-EastC > Pre-Oromo > P-TanzC

```
P-EASTC
               *gefl-
                ge?l-
                Je3I-
                Ja?l-
                Ja?l-
                             branching-off / transfer to P-TanzC
                4a?I-
                             1 > 4
                             non-initial I > \emptyset
                4a?-
```

Conclusions

Some P-TanzC *4 < P-EastC *g

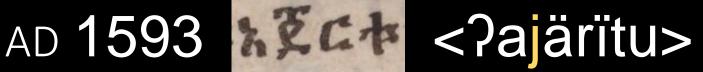
via Pre-Oromo

Relative chronology

$$(x)$$
 $e > a$

Absolute chronology





ሐልዮአተባብእያስብዕ:ነንድ፡እለ፡ይትበቍው፡በነጌድ፡መይረብሙ፡ለር አስሙ፡አስምን፡ነንድ፡መቢባን፡ነሀብት፡መደሐፍት፡ ወስ ፋይያን፡ ወፀራ ብያንጀወችለ፡ ይመከልዋሙ፡ ኢየትምት፡ ተባብ አቅታከ bi ጸታቆ አዝማሮች፡ ወበዓለ፡ቀንደ፡ ከበሮ፡ ወበዓለ፡በ7ና፡ እስ፡ይሬከይም:ተጣባረ:ስከኤል¤ይባርከም:ለዘወሀበሙ።ወይሁብም:ከብሐተ:ብሙስ:ወውጻሴ:ጽሩዓ¤ወለኝመኒ፡ረገምም:ለዘክልአ መ፡ ኢይ ከውት: 69: አከመ፡ ይብለ። ሕግ፡ ብ፤፣ወ፤ የዓ፡ ይርላቁ አምፅ ብ፯፡ዓ/ሥራይ፡ ጸታ፡ አሰ፡ይ እላ ዘ፡ ከርናተ፡ ወወልታ፡ ወ፯ ለ፡ ይከሉ። ተዛ ብ እ፡ መይተል መ፡ አመረነ የጉሙን ለረ ዊ ጽ ፣ መበ እንተ፡ ሙ ላደ ቶ ሙ፣ ለእስ፡ ጠፋአ ት፣ ሀገር ነቃ ለን ለስ፡ አልበ፡ በ ላቤሁ፡ እም እስ፡ ሠ፡ ደላ፡ ኔሉ ዘክርናሆሙያወትሎሙ፡ምሁራት፡ፀብእያእምጓእሱ፡እስከ፡ዓ.ቤዮ፣በእጓተብ፡ያጠፍኣት፡ወይቀትለ፤ወለእለስ፡ይብሎ፡ይቀትለት፡በትእክክ፡ \$ብዚአብሔር፡ነሥት፡ምከንያተ፡ጷምተመውአተ፡ደቂቀ፡ኧስራኤል፡ወጥፍአቶሙ፡በእደ፡ነገሥተ፡ፋርስ፡ወባቤሎን፥ወይብሉ፡አመስ፡መ ስተያብእ፡ይመውች፡መኍ፟፟፟፟፞አምስአለ፡ረድ፟፟፟፟፟፟ጜተ፟፟፟፟፟፞፞፞፞ጜ፞፞፞፞ኯ፟፟፟፟፟ጟማዚአብሔር፡ክቡር፡መልዑል፪ወ፟አመኒ፡ብዙፋ፡ይመውሉ፡ለውጐድ፡ሕምክ፤፡ብሙሉ ቃለ:መጽሐፍ:ዘይቤ፡፩፡ያነትያው፡ለ፲፻፡ወከልኤቱ፡ይስድ ድዋሙ፡ለ፯ልፍ፡ወለ፯መናኔውን፡ቃሎሙ፡ለመስተጋዕዛፕ፡ቀጸማውያ3፡አሙ፡ ለይ ኃራው ያናፉ አኝትሙ። ተአምሩ፡ አማኝ ምራናፉ 390% h: ጎበ: ዜናሁ: ለኃላ: ለጓሉስ: ሕፃናት፡ ይሰምም መ። መነው ወለንለ፡ይልህቁ፡ይስምዋሙ።ኤልማንጀወንምነ፡ንሉሂ፡ንለ፡ይልህቁ፡ይስምዋሙ;ንርባንጀዘይወዋኑ፡ተፃብንጀወለወልዙት፡ንለ፡አ ተገዝሩ፡ይስ ምምሙ፡ቈንዱለ፡፯ስ፡ይገብሩ፡ሥዕርተ፡ር፯ስሙ፡ስሙ፡ሳሬ፡መይስምይም፡ክለላ፣ወሰ፯መ፡ቀተሉ፡ስብአ፡ውነ፯፡መአንብስ፦ ወአርዌ:ሐሪስ:ወጕሽ:ደችላጸዩ:ጓስቲተ:*መዕርት*:ማንክለነድማ*ሆሙ፤ወዝኢቀተለስ:*አይትላጸይጀወለኝለ:ነሥኡ:አንክቲያ:አይ ትላጸዩ፡ኧመ፡ኢቀተሎጀወበመዋዕስ፡ሙልኔታ፡በልው፡ጕሽ፷ወይቤሎ፡ኧመስ፡በላልናሁ፡፡ላህም፡ው፟፟፟፟፟፟ቱ፡ኢንትላጸይ፡ር፯ስን፡ኧሙ፡ቀ ተልናሁ፤ ወመጓልቅ ሙ፡ ይቤሎ፡ በቃለ፡ትዕይርት ኢጓትለዩይ፡ ርኧስነ፡አመ፡ ቀተልና ሆሙ፡ ለስብአ፡ሽዊ፡ ወአምሐራ፡ ጳስመ፡ አልህምት: ነባብያዊ እሙንቱ: ወኢያክሉ: ተፃብ አፄ ወዙ ሱ፡ን ስ፡ እመኒ፡ ሱባ፡ ወእ መኒ፡ ቀ ንዶለ፡ ዘኢነ ሥ ኡ፡ ብ እስታ፡ ይሰ መዩ፡ ቄሮ፡ ወየ ዓ ድረ፡ በ ፩፡ቤት፡ቄሮ፡ዘሉባ፡ምስለ፡ሉባ፡ወዘቈንደሴ፡ምስለ፡ቁንደለ፣ወቄሮ፡ዘገበር፡ምስለ፡ገበር፪ወይሠየሙ፡መጣኝ፡፳፡ለብኢ፡አምኔሆሙ ለከረሐ፡ለ\$ሳ፡ወይስምይዋሙ፡አጀርቱ፪ዓዲ፡ይ ለምዋሙ፡ለጠቢሐ፡አልህምት፡ወይለመዩ፡ቀልታ፡ወክልበ፡ይሰመዩ፡፪፡ሰብኤ፡ አስ፡ይመብት፡ለን፡ወይመት 4፡ወይሆቡ፡ለት ለ፡፡ዕሩ የ፡በባምታር፡ወይ ብል የሙ፡፡ዋጀ፣ መከዕበ፡ይ Wይ ሙ፡፡ &፡ ዕደው፡ለሐሊበ፡፡ወች ወት: ኔምአልህምተ፡ኵሶ፡ወከምሙ፡ሐስብዶ፪ዓዲ፡ይሠይሙ፡ ፪፡ለቀዲሐ፡ወትወት፡ወይሁቡ፡ለለል፡ል፡በ መከፈርት፱ወከምሙ፡ ዋ፟ጜቶ፨ወክዕበ፡ይሠይሙ፡ ፲፡ስብአ፡ስአኢትዮ፡አልህምት፡ወየጛሥሙዘጠፋአ፥ወስምሙ፡በርባዶ፥ወዓዲ፡የታርዩ፡አምኔሥ ሆሙ: ወይ WB ም የሙ ትመ: ይገ W ጻ፡ ወይ ቅ , Wd: ለ ዘ የ ተነው ር፡ ተበ፡ ብ እስት፡ ወይ W መ ዩ፡ ትር ሳጻው ዝንቱ፡ ቶ ዓ ቅ በ ቶሙ፡ ኢት ኮ ላዩ ድቅ:ከመ፡ይኩት:ንቁባነ፡ወትጉባነ፡ለተቃትሎጳወዘስ:አውስብ፡ይሔሲ፡ በዘያሠምራ:ለብኧሲቱ፤ወካዕበ፡ይሠይሙ፡መጠነ፡፲፡ለብ፮. ለነጺአ፟፟አልህምት፡ወስ ምሙ፡ጠውተጀወዘፈቀደ፡ሺምኔሆሙ፡ነሢአ፡ብኢሲት፡ይትፈለጥ፡ወይነብር፡በቤቱ፡ወይለምይዎ፡ጅልላሉ፡ ከማኒ፡ዘረክስ፡ፀረ፡ዘይተባህ፡ለገቢረ፡ኧክይጀወአልስ፡ክማኒ፡ዘረክበ፡ኧባዚአ፡ወኝጉው፡ዘይተባህ፡ስገቢረ፡ውናይ፱ኧጣዛ እስከ: ዘመ3: ነዋላ: መመዋልል: 743 ዓ.ይ፡ ይቤ: ባሕርይ፣ አብሎ:ይዕቀበ:ስንብት:

What if Tanzanian Cushitic is Oromoid?

- Instead of 4000 BP less than 400 BP
- Place and period of lexical transfer into Bantu languages changes
- Extensive differentiation of Tanzanian Cushitic in little time

Tanzanian Cushitic present earlier

Evidence that Tanzanian Cushitic is earlier

 Proto-Tanzanian-Cushitic words that can shown to be Cushitic retentions but did not undergo Oromoid innovations

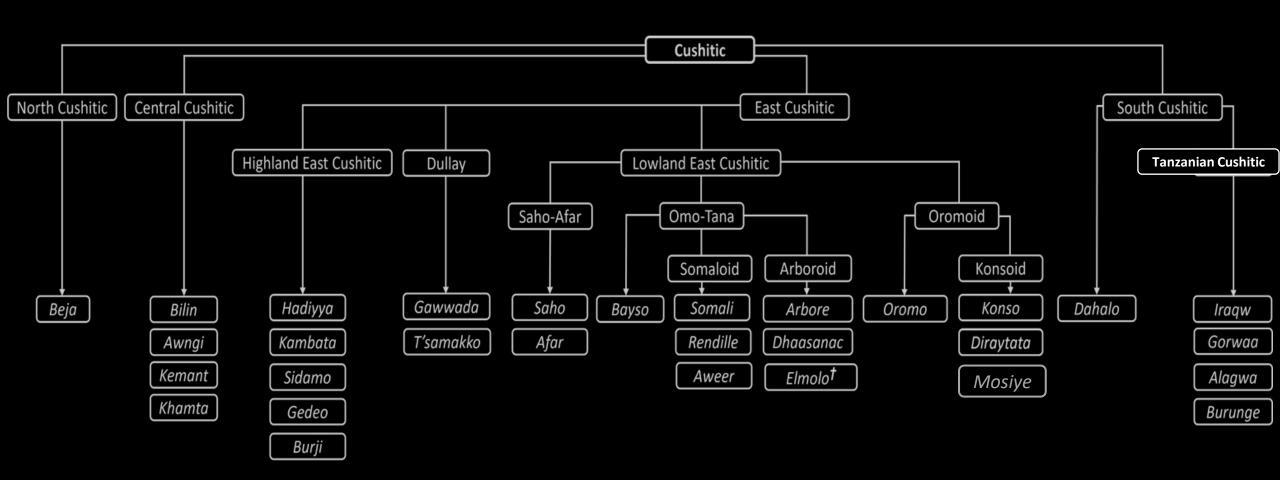
Old words-1

```
Proto Tanzanian Cushitic *daangw (m) 'elephant'
IR daangw
GO daw
AL daw
BU daw
```

Cushitic cognates:

- Somali **dagon** id., Proto-Highland-East-Cushitic ***dzaane** id.; Proto-North-Agaw ***zan-a** 'elephant'.
- Different root: Oromoid: Oromo arpa; Konso arpa; Dullay: Gawwada arap; Tsamakko araf-ko;
- NB: Omotic parallels: Aari dangór, Karo dongwar, Hamer dongur, Wolaytta dangarsa.

The Cushitic languages included in this study



Old words-2

```
Proto Tanzanian Cushitic: PNWR*Seetl (v) 'be unripe'
IR Seetl (adj) 'fresh, raw'
GO Seetl (adj) 'unripe'
AL Seetl (v) 'be unripe, be raw'
```

- Cushitic cognates: Arbore heedd'í 'raw', Afar Seed' 'be raw', Somali Sayd'iin 'unripe'.
- Different: Oromo d'eed'ii 'raw'; Konso: orkooma 'unripe'; Gawwada ?arkum-k-o 'unripe fruit'; Tsamakko laxx.
- Good cognate set with in Cushitic including Tanzanian Cushitic but excluding Oromo (and Dullay).

and many more

Bonny Sands and Mauro Tosco proposed last week a Dullay (peripheral East Cushitic) presence in the Tanzanian Rift Valley based on cognates between Hadza and **Dullay**

Explains? odd semantic shift in numbers

| Number | *Agaw | *Tz Cushitic | *East-Cushitic |
|--------|--------------|--------------|----------------|
| 2 | *läŋa/laŋa | *tsada | *lam(m) |
| 3 | *säɣwa/səɣwa | *tam | *saddeħ |
| 4 | *sä3a | ≈ *ts'igaħa | ≠ *'afur |

Scenario

Tz Cushitic had something like **sägya** '4' and came into contact with <u>East Cushitic</u> speakers using something like **seddeħ**'3'

The two forms amalgamated to TzCushitic tsigaħa '4' (with final ħ)

And shifted the East Cushitic word for '2' to mean '3'.

A new word for '2' was coined (*tsada from tsat 'to cut, split'?)

Conclusions

- Pre-Oromo influence on an existing Cushitic speaking population in Central Tanzania.
- No memory of that in oral history
- No non-linguistic indications (yet)
- Not one but THREE Cushitic migrations into Tanzania;
- or the bluntness of Ockham's razor.

Other results Past, Present and Future

Other results

- Paper on contact-induced retention of lateral fricatives and lateral ejective affricates in Tanzanian Cushitic (Also in Hadza, Sandawe, Kuliak, South-Nilotic; and contact-induced introduction in Davida-Bantu.
- Rangi and Mbugwe (Bantu) are reconstitutions of different Bantu languages belonging to different clans
- Aasa and Kw'adza do not form a unit, and Kw'adza is in Tanzanian Cushitic (Iris Kruijsdijk)
- There is considerable contact between Kuliak (Uganda, isolated family) and Tanzanian Cushitic and Sandawe
- The Cushitic influence on Taita Bantu languages does not warrant posing two (or 3) former Cushitic languages but one (Sophie Mulder)

Other on-going

- Is morphosynactic innovation in Mbugwe and Rangi shared or parallel? (Giorgia Zantei)
- What is contact-induced change in kinship terminology in the Tanzanian Rift Valley (Marta Cestari)
- Can the lexical density in certain domains in languages by hunters provide an indication whether they are impoverished herders of hunters who shifted language (Dominique Loviscach)
- •
- Reconstruction of lexical transfer of Cushitic into (groups of) Bantu languages (Christian and Maarten)

Thank you!



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Discussion

The hypothesis of PLV vowels change

(Cushitic regressive assimilation rule)

$$V > a / _*Ca(a)$$

| reduplication RD | *V- | С | | Rendille kàr-ár 'dog' | |
|---|----------------------|--------|----------------------|------------------------------------|--|
| | | | | | |
| | [RD/EPENTHETIC V] | [RD C] | | | |
| stacking RD + *-a | *V- Ca | | -a | Alagwa | |
| | [RD/EPENTHETIC V] | [RD C] | [*-a] | kwar-ar-aa 'year' | |
| regressive assimilation | *a- | C- | -a | Oromo hol-aata 'sheep' | |
| | [assimilated *-a] | [RD C] | [*-a] | | |
| boundary shift & reinterpretation of RD | *a-, i-, e-, u-, o- | C- | -a | Oromo | |
| | [*-a, FRONT, BACK V] | [RD C] | [*-a] | hol-oota 'sheep' | |
| final V marks gender, case, etc. | *a-, i-, e-, u-, o- | C- | *-a, -i, -e, -u, -o | Somali | |
| | [*-a, FRONT, BACK V] | [RD C] | [*-a, FRONT, BACK V] | koob-eti 'glass' | |
| consonant changes, e.g., lenition | *a-, i-, e-, u-, o- | C- | *-a, -i, -e, -u, -o | Gawwada ₇ | |
| | | | | Síll-i <mark>dd</mark> e 'cowskin' | |

Alternative hypothesis

| Proto-Cushitic | \rightarrow | Cushitic languages |
|----------------|---------------|--------------------|
| *RD | \rightarrow | RD |
| *VB | \rightarrow | VB |
| *RD+*VB | \rightarrow | RD+VB |

| Hypothesis 1 | Hypothesis 2 | Hypothesis 3 (1+2) |
|---|----------------|--|
| 6-archaic Forms *CB *-y-, *-w-, *-t-, *-m-, *-n-, *-l- | *VB + *RD → CB | *6-CB(moribund) → *RD+(VB) → CB (renovated) |