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Omotic numerals

Dedicated to the memory of Andrzej Zaborski (1942–2014)

Abstract

More than 30 years ago Andrzej Zaborski (1983; 1987 {1983}) collected and analyzed all Cushitic and Omotic numerals, which were described in his time, and tried to analyze their internal structure. His two pioneering studies stimulated the present attempt to collect all available relevant data about Omotic numerals and to analyze them in both genetic (Afroasiatic) and areal (Cushitic, Ethio-Semitic and Nilo-Saharan) perspectives, all at the contemporary level of our knowledge. With respect to the long mutual interference between various groups of Cushitic and Omotic languages, it is necessary to study the numerals in both the language families together. The presented material is organized in agreement with the genetic classification of these languages. On the basis of concrete forms in individual languages the protoforms in partial groups are reconstructed, if it is possible, and these partial protoforms of numerals in the daughter protolanguages are finally compared to determine the inherited forms. The common cognates are finally compared with parallels in other Afroasiatic branches, if exist, or with counterparts in Ethio-Semitic or Nilo-Saharan languages, if they could be borrowed from or adapted into the Cushitic or Omotic languages.

Keywords

Cushitic, Omotic, Ethio-Semitic, Afroasiatic, Nilo-Saharan, etymology, borrowing.

I. North Omotic

1. Dizoid

	1	2	3	4	5	6	7	8	9	10
Dizi	<i>k'o:j / k'òy</i>	<i>t'à:gḡ / tà:gn</i>	<i>kà:dū / kàdú</i>	<i>k'ùbḡ / kùbḡ</i>	<i>útfū / úxcú</i>	<i>jākū / yākú</i>	<i>tù:sū / tù:sú</i>	<i>ze:d / zyéd</i>	<i>sāgḡ / sàgḡl</i>	<i>tāmū / támú</i>
Nayi	<i>jisḡ</i>	<i>t'a:gḡ</i>	<i>kādú</i>	<i>kubḡ</i>	<i>útf:ú</i>	<i>jākú</i>	<i>tu:su</i>	<i>ziét</i>	<i>sāgḡ</i>	<i>tāmmù</i>
Sheko	<i>k'òy</i>	<i>t'aagḡ</i>	<i>kàdu</i>	<i>kúbḡ</i>	<i>útfú</i>	<i>yakú</i>	<i>tubsu</i>	<i>zeed</i>	<i>sagḡ</i>	<i>təbi</i>

	20	30	40	50	60	70	80	90	100	1000
Dizi	<i>t'à:gḡ / támū</i>	<i>kà:dū / támū</i>	<i>k'ùbḡ / támū</i>	<i>útfū / támū</i>	<i>jākū / támū</i>	<i>tù:sū / támū</i>	<i>ze:d / támū</i>	<i>sāgḡ / támū</i>	<i>mātū / k'o:j (mātu < Amh.)</i>	<i>fi k'o:j (fi < Amh.)</i>
Nayi	<i>t'à tám</i>	<i>ka tám</i>	<i>kubḡ / tám</i>	<i>útf / tám</i>	<i>jāku / tám</i>	<i>tu:sn / tám</i>	<i>zéd / tám</i>	<i>sāgḡ / tám</i>	<i>bálla</i>	<i>wuma</i>
Sheko	<i>t'aagḡ / tamú</i>	<i>kàdu / tamú</i>	<i>kúbḡ / tamú</i>	<i>útfú / tamú</i>	<i>yakú / tamú</i>	<i>tubsu / tamú</i>	<i>zeed / tamú</i>	<i>sagḡ / tamú</i>	<i>k'oy / bara / tiba k'oy</i>	<i>k'oy fi (fi < Amh.)</i>

2. Yemsa

	1	2	3	4	5	6	7	8	9	10
	<i>ʔis:ɔ:n¹¹ / ʔisa¹¹</i>	<i>hep^{h1} / ʔep^{h1}</i>	<i>'k^he:z²</i>	<i>ʔa¹¹'tʃe:tʃ^ʃ</i>	<i>'ʔo:tʃ^ʃ</i>	<i>ʔl'si:ɔn¹</i>	<i>'na:¹fon¹</i>	<i>'naḡ²ri:n¹</i>	<i>'ʔiz¹gim¹</i>	<i>ʔa¹sir¹</i>

	20	30	40	50	60	70	80	90	100	1000
	<i>hep^{h1} / a¹sir¹</i>	<i>'k^he:z² / a¹sir¹</i>	<i>ʔa¹¹'tʃe:tʃ^ʃ / a¹sir¹</i>	<i>'ʔo:tʃ^ʃ / a¹sir¹</i>	<i>ʔl'si:ɔn¹ / a¹sir¹</i>	<i>'na:¹fon¹ / a¹sir¹</i>	<i>'naḡ²ri:n¹ / a¹sir¹</i>	<i>'ʔiz¹gim¹ / a¹sir¹</i>	<i>ʔl'sa¹ / t^{h1}ja¹</i>	<i>ʔl'sa¹ / k^ho²ma²</i>

3. Gimira

	1	2	3	4	5	6	7	8	9	10
Bench	<i>mat¹³</i>	<i>nam⁴</i>	<i>kaz⁴</i>	<i>od⁴</i>	<i>uṽ²</i>	<i>sa²pm³</i>	<i>na²pm³</i>	<i>n²ar²tn³</i>	<i>irs²tn³</i>	<i>tam⁵</i>
She	<i>mātā</i>	<i>nām</i>	<i>kāz</i>	<i>od</i>	<i>uç</i>	<i>sāpḡ</i>	<i>nāpḡ</i>	<i>nyārtḡ</i>	<i>yrstn</i>	<i>tām</i>

	20	30	40	50	60	70	80	90	100	1000
Bench	<i>nam³tam²</i>	<i>kaz²tam²</i>	<i>od³tam²</i>	<i>uɿ³n³tam²</i>	<i>sa⁵pm³tam²</i>	<i>na⁵pm³tam²</i>	<i>n⁵ar⁵tn³tam²</i>	<i>irs⁵tn³tam²</i>	<i>bal²⁻³</i>	<i>nam⁴ wum²⁻³</i>
She	<i>nām-tām</i>	<i>kas-ɾ^m</i>	<i>ot-tām</i>	<i>učen-tām</i>	<i>sāpm-tām</i>	<i>nāpm-tām</i>	<i>nyārtn-tām</i>	<i>yrstn-tām</i>	<i>bāllō</i>	<i>tam bal</i>

4. Omoto

	1	2	3	4	5	6	7	8	9	10
Chara	<i>ɾissa</i>	<i>nanta</i>	<i>ke:za</i>	<i>obda</i>	<i>učča</i>	<i>sapma</i>	<i>lapma</i>	<i>nandirsa</i>	<i>bīza</i>	<i>tansá</i>
Dorze	<i>ɾissino ~ ista</i>	<i>nam(?)á</i>	<i>heezá ~ heedzi</i>	<i>ɾoidá</i>	<i>ɾitfáfa ~ ɾitfátfa</i>	<i>ɾusúpun ~ ɾusúfun</i>	<i>láppun ~ láfun</i>	<i>hóspun ~ hósfun</i>	<i>ɾudúfun ~ ɾudúfun</i>	<i>tám(m)i</i>
Zala	<i>ista</i>	<i>na'ā</i>	<i>hezzā</i>	<i>oiddā</i>	<i>iččāsā</i>	<i>usuffunā</i>	<i>lāffunā</i>	<i>hosfunā</i>	<i>udduffunā</i>	<i>támmā</i>
Gofa	<i>ɾistá</i>	<i>nam??á</i>	<i>heedzdzá</i>	<i>ɾoiddá</i>	<i>ɾitfjáfá</i>	<i>ɾusúppuna</i>	<i>laáppuna</i>	<i>hóspuna</i>	<i>ɾuddúfuna</i>	<i>támma</i>
Malo	<i>ista</i>	<i>nam?a</i>	<i>hedza</i>	<i>oydda</i>	<i>ičeša</i>	<i>usúpuna</i>	<i>lápuna</i>	<i>hospuna</i>	<i>uddupuna</i>	<i>tamma</i>
Dache	<i>ɾissino / ɾistá</i>	<i>nam?á</i>	<i>heedzdzá</i>	<i>ɾoiddá</i>	<i>ɾitfjáfá</i>	<i>ɾusúppuna</i>	<i>laáppuna</i>	<i>hóspuna</i>	<i>ɾuddúfuna</i>	<i>támma</i>
Gamo	<i>ɾissio (?ista)</i>	<i>nam?a</i>	<i>heedzda</i>	<i>ɾojdda</i>	<i>ɾitfjáfá</i>	<i>ɾuspuna</i>	<i>laappuna</i>	<i>hospuna</i>	<i>ɾuddupuna</i>	<i>tamma</i>
Wolaitta ₁	<i>ɾistá</i>	<i>naa??á</i>	<i>heezá</i>	<i>ɾoiddá</i>	<i>ɾitfjáfá</i>	<i>ɾusúppuna</i>	<i>laáppuna</i>	<i>hóspuna</i>	<i>ɾuddúfuna</i>	<i>támma</i>
Wolaitta ₂	<i>ɾistá / ɾisiino</i>	<i>naa??á</i>	<i>heezá</i>	<i>ɾoidsá</i>	<i>ɾiččásá</i>	<i>ɾusúppuna</i>	<i>laáppuna</i>	<i>hóspuna</i>	<i>ɾuddúfuna</i>	<i>támma</i>
Kullo	<i>eso</i>	<i>naha</i>	<i>esa</i>	<i>oída</i>	<i>ičaša</i>	<i>ussupuno</i>	<i>lapuna</i>	<i>uspuna</i>	<i>udupuna</i>	<i>tama</i>
Ganjule ₁	<i>bizzó</i>	<i>naámɾu</i>	<i>háyzí</i>	<i>ɾoyddu</i>	<i>ɾitfjáfí</i>	<i>ɾizzí(w)pu</i>	<i>láppu</i>	<i>lánkufife</i>	<i>tánsinde</i>	<i>támmu</i>
Ganjule ₂	<i>bizu</i>	<i>lam?</i>	<i>haydz</i>	<i>oydu</i>	<i>išič</i>	<i>izúp</i>	<i>lap'ɿ</i>	<i>lanjúk</i>	<i>tantsinde</i>	<i>tam</i>
Gats'ama	<i>bizé</i>	<i>ná:mɾo</i>	<i>há:yzí</i>	<i>ɾó:idu</i>	<i>ɾišíʒ</i>	<i>ɾəzú</i>	<i>láp</i>	<i>lanjúk</i>	<i>tansint</i>	<i>támu</i>
Zargulla	<i>bizzó</i>	<i>nám?a</i>	<i>háidts</i>	<i>ɾoidd</i>	<i>ɾišičč</i>	<i>ɾizíp</i>	<i>laáp</i>	<i>lakkúče</i>	<i>tansine</i>	<i>támm</i>
Koorete	<i>'bidz:ò</i>	<i>'lám?è</i>	<i>'hávdzè</i>	<i>'ɾó:d:è</i>	<i>'ɾi'tfjáfè</i>	<i>'ɾi'z:úfè</i>	<i>'lá:pè</i>	<i>há'z:úp:è</i>	<i>ɾò'd:úp:è</i>	<i>'t^hám:è</i>
Zayse	<i>bizzō</i>	<i>nam</i>	<i>hayts</i>	<i>oyt</i>	<i>išič</i>	<i>izup</i>	<i>lāp</i>	<i>lakkuc</i>	<i>tsingō</i>	<i>tām</i>
Basketo	<i>péttán péttí^{modif.}</i>	<i>nám?i</i>	<i>háizí</i>	<i>oiddí</i>	<i>iffin</i>	<i>lèhi</i>	<i>tàbzá</i>	<i>lámáhái / lámákái</i>	<i>sàakàlì / sàakilì</i>	<i>tábbá</i>
Doko	<i>petteni</i>	<i>nam?i</i>	<i>hayzi</i>	<i>oyddi</i>	<i>iššini</i>	<i>lhi</i>	<i>tabzá</i>	<i>lamakoy</i>	<i>sa-kali</i>	<i>taɓba</i>
Dollo	<i>péttán</i>	<i>nām</i>	<i>ayz</i>	<i>oyd</i>	<i>ěššén</i>	<i>leh</i>	<i>tābezā</i>	<i>lāmākāy</i>	<i>sākāl</i>	<i>tā'ba</i>
Oyda	<i>féttó</i>	<i>lam?i</i>	<i>háiddzi</i>	<i>ɾoiddí</i>	<i>ɾiccin</i>	<i>ɾizippun</i>	<i>láappun</i>	<i>ɾóspun</i>	<i>ɾiddifun</i>	<i>tábbó</i>
Male	<i>pétte</i>	<i>lam?o</i>	<i>haitsó</i>	<i>ɾoidó</i>	<i>dóngo</i>	<i>láhhó</i>	<i>lánkayi</i>	<i>sállì</i>	<i>tásuba</i>	<i>tábbó</i>

	20	30	40	50	60	70	80	90	100	1000
Chara	<i>nantansá</i>	<i>ke:ztansá</i>	<i>obda tansá</i>	<i>učča tansá</i>	<i>sapma tansá</i>	<i>lapma tansá</i>	<i>nandirsa tansá</i>	<i>biža tansá</i>	<i>s'e:ta</i>	<i>ʔissa šáʔa</i>
Dorze	<i>nám(?)i tam(m)i ~ laátamma</i>	<i>heézi tam(m)i</i>	<i>ʔoidi tam(m)i</i>	<i>ʔiɿftjáfɿ tam(m)i</i>	<i>ʔusúpún tam(m)i</i>	<i>lápún tam(m)i</i>	<i>hóspun tam(m)i</i>	<i>ʔuddúpún tam(m)i</i>	<i>(ʔissi) ts'eete</i>	<i>ʔissi fije < Amh.</i>
Gofa	<i>namʔu tamma / laátamma</i>	<i>heédzdu tamma / hástama</i>	<i>ʔoiddú tamma / ʔoitama</i>	<i>ʔiɿftjáfú tamma / ʔijátama</i>	<i>ʔusúppún tamma</i>	<i>laáppún tamma</i>	<i>hóspun tamma</i>	<i>ʔuddúfún tamma</i>	<i>ts'eéta</i>	<i>mukúla / (jáʔa) fíʔa < Amh.</i>
Malo	<i>lá-táma</i>	<i>hastama</i>	<i>oytáma</i>	<i>išetama</i>					<i>s'e:ta</i>	
Dache	<i>namʔu tamma</i>	<i>heédzdu tamma</i>	<i>ʔoiddú tamma</i>	<i>ʔiɿftjáfú tamma</i>	<i>ʔusúppún tamma</i>	<i>laáppún tamma</i>	<i>hóspun tamma</i>	<i>ʔuddúpún tamma</i>	<i>(ʔissi) ts'eéta</i>	<i>ʔissi fíʔa < Amh.</i>
Gamo	<i>namʔu tamma (laatamma)</i>	<i>heedzdu tamma</i>	<i>ʔojddu tamma</i>	<i>ʔiɿftjafɿfú tamma</i>	<i>ʔispun tamma</i>	<i>laappun tamma</i>	<i>hospun tamma</i>	<i>ʔuddupun tamma</i>	<i>namʔa s'eeta</i>	<i>ʔissi fíʔa < Amh.</i>
Wolaitta ₁	<i>laátama / nááʔʔú tamma</i>	<i>hástama / heézzú tamma</i>	<i>ʔoitama / ʔoiddú tamma</i>	<i>ifátama / ʔiɿftjáfú tamma</i>	<i>ʔusúppún tamma</i>	<i>laáppún tamma</i>	<i>hóspún tamma</i>	<i>ʔuddúpún tamma</i>	<i>(ʔissi) t'eéta</i>	<i>(ʔissi) fíʔa < Amh.</i>
Wolaitta ₂	<i>laátama</i>	<i>hástama</i>	<i>ʔoitama</i>	<i>iččátama</i>	<i>ʔusúppun tamma</i>	<i>laápun tamma</i>	<i>hóspun tamma</i>	<i>ʔuddúpun tamma</i>	<i>t'eéta</i>	<i>čáʔa < Amh.</i>
Kullo	<i>latama</i>	<i>as-tama</i>	<i>oi-tama</i>	<i>iča-tama</i>	<i>ussupun-tama</i>	<i>lapun-tama</i>	<i>ospun-tama</i>	<i>udupun-tama</i>	<i>teta</i>	<i>šáša</i>
Ganjule ₁	<i>námmʔu támmu</i>	<i>háyyzi támmu</i>	<i>ʔoyddu támmu</i>	<i>ʔifitɿfɿ támmu</i>	<i>ʔizzi(w)pu támmu</i>	<i>láppu támmu</i>	<i>lánkufɿfe támmu</i>	<i>tánsinde támmu</i>	<i>s'eét</i>	<i>fí < Amh.</i>
Ganjule ₂	<i>lamʔu tom</i>	<i>haydzi tom</i>	<i>oydi tom</i>	<i>išittam</i>	<i>izup tom</i>	<i>lap^otom</i>	<i>laykuče tom</i>	<i>tantsinde tom</i>	<i>ts'e-ti</i>	<i>bizi ts'its'</i>
Zargulla	<i>namʔú támm</i>	<i>haidtsú támm</i>	<i>ʔoidd támm</i>	<i>ʔišičč támm</i>	<i>ʔizíp támm</i>	<i>laáp támm</i>	<i>lakkúče támm</i>	<i>tansine támm</i>	<i>s'eét</i>	<i>šíya < Amh.</i>
Koorete	<i>lám 'tʰám.è</i>	<i>há'dzi-'tʰám.è</i>	<i>ʔʕ'di-'tʰám.è</i>	<i>ʔi'ɿfɿfɿ-'tʰám.è</i>	<i>ʔi'z:úφ-'tʰám.è / ʔi'z:úpp-'tʰám.è</i>	<i>lá:p-'tʰám.è</i>	<i>há'z:úφ-'tʰám.è</i>	<i>ʔʕ'd:úφ-'tʰám.è</i>	<i>'ts'í:tsè</i>	<i>(ʰbidz-) 'kúma < Or. / (bidz'-) fíʔè < Amh.</i>
Zayse	<i>lamtam</i>	<i>haystam</i>	<i>oyttam</i>	<i>iččaštam</i>	<i>izuptām</i>	<i>lāptam</i>	<i>lakkučtam</i>	<i>tsingtam</i>	<i>tsietā</i>	

	20	30	40	50	60	70	80	90	100	1000
Basketo	<i>lám-tám</i>	<i>hàizzí tábbá</i>	<i>òiddí tábbá</i>	<i>ijfin tábbá</i>	<i>lèhi tábbá</i>	<i>tàbzá tábbá</i>	<i>lámáhái tábbá</i>	<i>sàakáli tábbá</i>	<i>ts'èetà / gábbà</i>	<i>múkilà / múkilà</i>
Doko	<i>lam tam</i>	<i>aydzi tabba</i>							<i>ts'è-ta</i>	
Dollo	<i>lām-dāmmo</i>	<i>lām-tām tā'bo (2x10) +10</i>	<i>lāmi gābā 2x20</i>	<i>lāmi gābā tā' bā</i>	<i>oydi gābo 40+20</i>	<i>ōšonās gābā 50+20</i>	<i>lēhē-sa gābā 60+20</i>	<i>tabezā-zā gab'ā 70+20</i>	<i>lāmākā-sā gab'ā 80+20</i>	
Oyda	<i>lam? tám</i>	<i>haas tám</i>	<i>ḡoidd tám, ḡoitám</i>	<i>ḡiccín tam</i>	<i>ḡizippun tam</i>	<i>láappun tam</i>	<i>ḡóspun tam</i>	<i>ḡiddifun tam</i>	<i>(fétí) ts'èet</i>	<i>mikul</i>
Male	<i>lamá-támmi</i>	<i>haytsi-támmi</i>	<i>ḡoidi-támmi</i>	<i>dóngi-támmi</i>	<i>láhhi-támmi</i>	<i>lánkayi-támmi</i>	<i>sállitámmi</i>	<i>tásubi-támmi</i>	<i>s'èéta</i>	<i>fíya < Amh. fih</i>

5. Gonga

	1	2	3	4	5	6	7	8	9	10
Anfillo	<i>ikkó</i>	<i>guttó</i>	<i>kedzó</i>	<i>auddó</i>	<i>amittó</i>	<i>firtó</i>	<i>fabattó</i>	<i>fimittó</i>	<i>yiringó</i>	<i>afiró</i>
B(w)oro ₁	<i>ikka</i>	<i>gittá</i>	<i>ke.zá</i>	<i>áwddá</i>	<i>u.sá</i>	<i>šerita</i>	<i>šawáta</i>	<i>šimíta</i>	<i>ḡye.riyá</i>	<i>tása</i>
B(w)oro ₂	<i>ikkà</i>	<i>gittà</i>	<i>keezá</i>	<i>áwdà</i>	<i>uttsá</i>	<i>širr²tà</i>	<i>šawaatà</i>	<i>šammata</i>	<i>jeediya</i>	<i>tattsá</i>
B(w)oro ₃	<i>ikka</i>	<i>gitta</i>	<i>kéga</i>	<i>áuda</i>	<i>húča</i>	<i>širta</i>	<i>šábata</i>	<i>seminta</i>	<i>ḡéta</i>	<i>táča</i>
Kafa	<i>ḡikkóó</i>	<i>guttóó</i>	<i>kèémó</i>	<i>áwiddó</i>	<i>ḡiuttóó</i>	<i>firttóó</i>	<i>fábàattóó</i>	<i>fimittóó</i>	<i>ḡit'ijóó</i>	<i>ààfiróó</i>
Shekkacho	<i>ikka</i>	<i>guttaa</i>	<i>keejjaa</i>	<i>awuddaa</i>	<i>uucčaa</i>	<i>širittaa</i>	<i>šabaattaa</i>	<i>šimittaa</i>	<i>yit'iyaa</i>	<i>aširaa</i>

	20	30	40	50	60	70	80	90	100	1000
Anfillo	<i>hiyó / hižó</i>	<i>fáfó</i>	<i>aribó</i>	<i>amifó</i>	<i>firfó</i>	<i>fabó</i>	<i>finnó</i>	<i>yirió</i>	<i>(ikke-) balló</i>	<i>humó</i>
B(w)oro ₁	<i>hi.yá</i>	<i>ša.šá</i>	<i>habá</i>	<i>ballé kása</i>	<i>ja támá</i>	<i>torba támá</i>	<i>sade:t támá</i>	<i>ságal támá</i>	<i>balla</i>	<i>kumá</i>
B(w)oro ₂	<i>hiyyá</i>	<i>šaašà</i>	<i>habbá</i>	<i>baal-k'ats² = half-100</i>	<i>bel-k'ats²-tatts^e</i>	<i>bel-k'ats²-hiyy^e</i>	<i>bel-k'ats²-šaaš^e</i>	<i>bel-k'ats²-habb²</i>	<i>baallà</i>	<i>(ikkò-) kumá</i>
B(w)oro ₃	<i>héwo</i>	<i>sáāso</i>	<i>habbo</i>	<i>ballikáčo</i>	<i>síso</i>	<i>šábbo</i>	<i>šimno</i>	<i>zítana</i>	<i>báallo</i>	<i>šío</i>
Kafa	<i>hijóó</i>	<i>fàáfóó</i>	<i>ààbbòó</i>	<i>ààttfóó</i>	<i>fittfóó</i>	<i>fàbòó</i>	<i>finnòó</i>	<i>jit'enòó</i>	<i>bállò</i>	<i>hùmó</i>
Shekkacho	<i>hiyaa</i>	<i>šaašaa</i>	<i>aabbaa</i>	<i>aččaa</i>	<i>šiččaa</i>	<i>šabaa</i>	<i>šinnaa</i>	<i>yit'ana</i>	<i>ballo</i>	<i>umoo</i>

6. Mao

	1	2	3	4	5	6	7	8	9	10
Bambassi	<i>hiški</i>	<i>numbo</i>	<i>teezè</i>	<i>meše</i>	<i>kwíssi</i>	<i>kyaansè</i>	<i>kúlumbò</i>	<i>kúteezé</i>	<i>kúsméše</i>	<i>kiúúú</i>
Ganza	<i>ʔiškúwéén</i>	<i>mámùʔ</i>	<i>tíziʔ</i>	<i>máʃʃiʔ</i>	<i>kwíssiʔ</i>	<i>ʔiškípín</i>	<i>mámpín</i>	<i>wóp'ò</i>	<i>šéléʔ</i>	<i>kónsóbààʔ</i>
Hozo ₁ Bender / Wedekind	<i>on:a / onna</i>	<i>dombo / dombo</i>	<i>sia:si / siyazi</i>	<i>betsi: / betsi</i>	<i>kʷitsi / kwitsi</i>	<i>keni: / ota-onna</i>	<i>ʔɔ:ta / ota- dombo</i>	<i>ʔɔ:tá / ota-siyazi</i>	<i>ʔɔ:ti / ota-be:tsi</i>	<i>ʔó:ši / po:ši</i>
Hozo ₂	<i>ʔónnà</i>	<i>dòmbó</i>	<i>sijázi</i>	<i>béʃʃi</i>	<i>kwíʃʃi</i>	<i>kwíʃʃi ʔóttá ʔónnà</i>	<i>kwíʃʃi ʔóttá dòmbó</i>	<i>kwíʃʃi ʔóttá sijázi</i>	<i>kwíʃʃi ʔóttá béʃʃi</i>	<i>ʔóʃi</i>
Seze ₁ Bender / Wedekind	<i>išile / išile</i>	<i>nòmbé / no:mbe</i>	<i>si:zi / si:ze</i>	<i>bèʃé / beʃe</i>	<i>kúsé / kússe</i>	<i>dʒa:j / ot-šile</i>	<i>ʔɔ:t nòmbé / ot-nombe</i>	<i>ʔɔ:t si:zi / ota-si:ze</i>	<i>ʔɔ:t bè:ʃé / ota-be:ʃe</i>	<i>kó:sè / kú:se; cf. kuse hand</i>
Seze ₂	<i>ʔišilè</i>	<i>nòmbé</i>	<i>siüzé</i>	<i>beʃšé</i>	<i>kwíssé</i>	<i>kwíssé ʔòòt ʔišilè</i>	<i>kwíssé ʔòòt nòmbé</i>	<i>kwíssé ʔòòt siüzé</i>	<i>kwíssé ʔòòt beʃšé</i>	<i>kiúúé cf. kuse hand</i>

	20	30	40	50	60	70	80	90	100	1000
Bam- bassi	<i>numbo kuuse / eskele person- body</i>	<i>teezè kuuse</i>	<i>meše kuuse</i>	<i>kwíssi kuuse</i>	<i>kyaansè kuuse</i>	<i>kúlumbò kuuse</i>	<i>kúreezé kuuse</i>	<i>kúsméšé kuuse</i>	<i>kiúúé kuuse</i>	<i>hiški kuusan kiúúé kuusan</i>
Ganza	<i>ʔiʃ(k) ʔasi kéwò</i>	<i>ʔiʃ(k) ʔasi kéwò gáʃi kónsóbààʔ</i>	<i>mám ʔasi kéwò?</i>	<i>mám ʔasi kéwò gáʃi kónsóbààʔ</i>	<i>tíiz ʔasi kéwò?</i>	<i>tíiz ʔasi kéwò gáʃi kónsóbààʔ</i>	<i>beʃšé màà kwèèj</i>	<i>máʃʃ ʔasi kéwò gáʃi kónsóbààʔ</i>	<i>kwíss ʔasi kéwò?</i>	
Hozo ₁ Wed.	<i>onna-mo- kwe</i>	<i>onna-mo- kwe-eb- poši</i>	<i>dombo mo-kwe</i>						<i>kwitsi- mo-kwe</i>	
Hozo ₂	<i>móʔónnà- ké (ké = body)</i>	<i>móʔónnà- ké ʔóttá ʔóʃi</i>	<i>módòmbó- ké</i>	<i>módòmbó- ké ʔóttá ʔóʃi</i>	<i>mósijázi- ké</i>	<i>mósijázi- ké ʔóttá ʔóʃi</i>	<i>móbéʃʃi- ké</i>	<i>móbéʃʃi- ké ʔóttá ʔóʃi</i>	<i>mókwíʃʃi- ké</i>	<i>ʔónnà ʔúwwá sijázi</i>
Seze ₁ Wed.	<i>išil-ma- kwe</i>	<i>išil-ma- kwe-ne- ku:sene</i>	<i>nombe- ma-kwe</i>						<i>kússe- ma-kwe</i>	
Seze ₂	<i>ʔišil màà kwèèj</i>	<i>ʔišil màà kwèèné</i>	<i>nòmbé màà kwèèj</i>	<i>nòmbé màà kwèèné</i>	<i>siüzé màà kwèèj</i>	<i>siüzé màà kwèèné</i>	<i>beʃšé màà kwèèj</i>	<i>beʃšé màà kwèèné</i>	<i>kwíssé màà kwèèj</i>	

Cf. Koman numerals (Nilo-Saharan)

language	1	2	3	4	5	6	7	8	9	10
Kwama	<i>sóndò / sé:né / sé:şkin</i>	<i>sijá</i>	<i>twásèn</i>	<i>bé:şin</i>	<i>kú.mùt</i>	<i>kúbà-sè:n = takes 1</i>	<i>kúbà-sijá= takes 2</i>	<i>kúbà-twásèn = takes 3</i>	<i>kúb-bé:şin = takes 4</i>	<i>ķú:zi = fingers</i>
Opuuo	<i>difede</i>	<i>fuka / cuka</i>	<i>tufu / tusu</i>	<i>hwan / ŋwan</i>	<i>muta:-kwei = hand</i>	<i>kane-dé</i>	<i>kane-fuka</i>	<i>kane-tūfū</i>	<i>kane-hwān</i>	<i>muta-kweya-fuka-yen</i>
Komo ₁	<i>dē</i>	<i>so</i>	<i>dif</i>	<i>dɔgɔn</i>	<i>büş</i>	<i>káná gı dē</i>	<i>káná á so</i>	<i>káná á dif</i>	<i>káná á dɔgɔn</i>	<i>ķɔf ķɔlɔ = kill hand(s)</i>
Komo ₂	<i>dé?</i>	<i>so?</i>	<i>difin</i>	<i>dɔyɔn</i>	<i>büs'in</i>	<i>kà:nagidē</i>	<i>kà:naso?</i>	<i>kà:nadif</i>	<i>kà:ndɔgɔn</i>	<i>ķɔfķɔlɔ</i>
Twampa = Uduk	<i>dē?</i>	<i>sú?</i>	<i>kʷārā</i>	<i>dòŋ(g)òn</i>	<i>múǰéd</i>	<i>múǰéd pé dē?</i>	<i>múǰéd pé sú?</i>	<i>múǰéd pé pé(ŋ) kʷārā</i>	<i>múǰéd pé dòŋ(g)òn</i>	<i>ķíméd</i>

II. South Omotic = Aroid

language	1	2	3	4	5	6	7	8	9	10
Ari	<i>wól:áq</i>	<i>qast:én</i>	<i>mak:én</i>	<i>ʔoyd:i</i>	<i>dónq:</i>	<i>lá:</i>	<i>tabzá</i>	<i>qast:a'n-tám:ers</i>	<i>wolqá:n-tám:ers</i>	<i>tám:á</i>
Galila	<i>walqa / walaqa</i>	<i>kastan / kaskan</i>	<i>makkan</i>	<i>oyddi</i>	<i>doŋk</i>	<i>la-</i>	<i>tabza</i>	<i>lamakay</i>	<i>ša-kila</i>	<i>tamma</i>
Ubamer	<i>wallaqa</i>	<i>kastən / ʔasten</i>	<i>makkan</i>	<i>oyddi</i>	<i>doŋk / doŋq</i>	<i>la-</i>	<i>tabza</i>	<i>kastən tamərs</i>	<i>walqan tamərs</i>	<i>tamma</i>
Bakko	<i>ellagà</i>	<i>astèn</i>	<i>makken</i>	<i>oidi</i>	<i>donkh</i>	<i>là</i>	<i>tabza</i>	<i>kastátamez</i>	<i>alkátamez</i>	<i>tommà</i>
Dime ₁	<i>'wə̀kʰal</i>	<i>'kət'im</i>	<i>'makʰim</i>	<i>ʔod:ɔ</i>	<i>'şən:ə</i>	<i>lah(ə)</i>	<i>'tʰos:om</i>	<i>'kə̀şnaş</i>	<i>'waklaş</i>	<i>'tʰam:e</i>
Dime ₂	<i>wókkil</i>	<i>kastin</i>	<i>makkim</i>	<i>ʔúddú</i>	<i>şinni</i>	<i>láxi</i>	<i>tússum</i>	<i>kaşnáşiš</i>	<i>wókláşiš</i>	<i>təmme</i>
Hamar	<i>kála</i>	<i>lamá</i>	<i>makkán</i>	<i>oidí</i>	<i>dung</i>	<i>lax</i>	<i>toḅbá</i>	<i>lankái</i>	<i>sal</i>	<i>táḅi</i>
Hamar-Banna	<i>kala</i>	<i>lema:</i>	<i>makan</i>	<i>ʔoʷidi / ʔuʷidi</i>	<i>duŋ</i>	<i>lax</i>	<i>taḅa / toḅa</i>	<i>laŋkaʰ</i>	<i>səl</i>	<i>təḅi</i>
Amare Coche	<i>kalo</i>	<i>lama</i>	<i>makan</i>	<i>oidi</i>	<i>don</i>	<i>läh</i>	<i>tobba</i>	<i>lankai</i>	<i>sal</i>	<i>teppi</i>
Karo	<i>kallà</i>	<i>lammà</i>	<i>makàmm</i>	<i>oydi</i>	<i>dònn</i>	<i>lhā</i>	<i>tsòbà</i>	<i>lonkài</i>	<i>sall</i>	<i>tabi</i>

language	20	30	40	50	60	70	80	90	100	1000	
Ari	<i>bondá</i> = full person / ʔé-wól:áq -bab ʔits person-1 father-eat	<i>bondéke</i> <i>tám:á</i> / ʔé- <i>wól:áq-</i> <i>bab ʔitske</i> <i>tám:á</i>	<i>ʔé-</i> <i>qast:én-</i> <i>ba:b ʔits</i>	<i>ʔé-</i> <i>qast:én-</i> <i>ba:b</i> <i>ʔitske</i>	<i>ʔé-</i> <i>mak:én-</i> <i>ba:b</i> <i>ʔits</i>	<i>ʔé-</i> <i>mak:én-</i> <i>ba:b ʔitske</i>	<i>ʔé-ʔoyd:i-</i> <i>ba:b ʔits</i>	<i>ʔé-ʔoyd:i-</i> <i>ba:b</i> <i>ʔitske</i>	<i>ʔé-</i> <i>dóng:-</i> <i>ba:b</i> <i>ʔits</i> person-5 father- eat / <i>máto</i> < Amh.		<i>wól:áq</i> <u><i>fii</i></u> < Amh.
Galila	<i>bónda</i>	<i>bonda ke</i> <i>tammak</i>	<i>kasken</i> <i>ba bond</i>	<i>kasken</i> <i>ba</i> <i>bond</i> <i>ke af</i> <i>tammak</i>	<i>makkan</i> <i>ba bond</i>	<i>makkan</i> <i>ba bond</i> <i>ke afi</i> <i>tamma</i>	<i>oydi ba</i> <i>bond</i>	<i>oydi ba</i> <i>bond ke</i> <i>af tamma</i>	<i>donka</i> <i>ba bond</i> / <i>donka</i> <i>la bunde</i>		
Ubamer	<i>bonda</i>	<i>bónda ka</i> <i>támma ke</i>	<i>eḳastén</i> <i>ba bónd</i>						<i>meto</i> < Amh.		
Bakko									<i>doneh-</i> <i>babik</i>		
Dime ₁	<i>'wajdo</i>	<i>tʰamti</i> <i>'ma:kʰim</i>	<i>tʰamt</i> <i>ʔod:ɔ</i>	<i>tʰamta</i> <u><i>'šən:ə</i></u>	<i>tʰamta</i> <i>'lah</i>	<i>tʰamta</i> <i>'tʰos:om</i>	<i>tʰamte</i> <i>'kašnaš</i>	<i>tʰamta</i> <i>'waklaš</i>	<i>'te ətʰ</i>		
Dime ₂	<i>woidu</i>	<i>təmṭi</i> <i>məkkim</i>	<i>təmṭi</i> <i>ʔúddú</i>	<i>təmṭi</i> <u><i>šinni</i></u>	<i>təmṭi</i> <i>láxi</i>	<i>təmṭi</i> <i>tússum</i>	<i>təmṭi</i> <i>kašnášiš</i>	<i>təmṭi</i> <i>wóklášiš</i>	<i>šéét</i>	<i>šéét</i> <i>təmmi</i>	
Hamar	<i>éedi kála</i> <i>kaisá</i> = one complete man	<i>éedi kála</i> <i>kaisá apó</i> <i>táḅi</i>	<i>éedi</i> <i>lamá</i> <i>kaisá</i>	<i>éedi</i> <i>lamá</i> <i>kaisá</i> <i>apó</i> <i>táḅi</i>	<i>éedi</i> <i>makkán</i> <i>kaisá</i>	<i>éedi</i> <i>makkán</i> <i>kaisá apó</i> <i>táḅi</i>	<i>éedi</i> <i>ʔoʷidi</i> <i>kaisá</i>	<i>éedi</i> <i>ʔoʷidi</i> <i>kaisá</i> <i>apó táḅi</i>	<i>éedi</i> <i>šii kála</i>		
Hamar-Banna	<i>ʔe:di kála</i> <i>ka'sa</i>	<i>ʔe:di kála</i> <i>ka'sa</i> ḅpo <i>təḅi</i>	<i>ʔe:di</i> <i>lema:</i> <i>ka'sa</i>	<i>ʔe:di</i> <i>lema:</i> <i>ka'sa</i> ḅpo <i>təḅi</i>	<i>ʔe:di</i> <i>makan</i> <i>ka'sa</i>	<i>ʔe:di</i> <i>makan</i> <i>ka'sa</i>	<i>ʔe:di</i> <i>ʔoʷidi</i> <i>ka'sa</i>	<i>ʔe:di</i> <i>ʔoʷidi</i> <i>ka'sa</i> ḅpo <i>təḅi</i>	<i>ʔe:di</i> <i>duḅ</i> <i>ka'sa</i>	<i>šii kála</i>	
Amare Coche									<i>teppi</i> <i>teppi</i>		

Note: The underlined forms indicate recent, Ethio-semitic, borrowings.

Survey of Ometo numerals

	Čara	Ometo I	Ometo II	Ometo III	p-Ometo
1a	<i>ʔissa</i>	*ʔissi(-na) attr. *ʔis-ta sgl.			*ʔissi(-na) attr. *ʔis-ta sgl.
1b			*biʒʒo		*biʒʒa, cf. Čara bíʒa ‘9’ = [10-]1
1c				*pett(an)i	*pett(an)i
2	<i>nanta</i>	*namʔa	*lamʔa/i/u	*lamʔi	*lamʔa
3	<i>ke:za</i>	*heeʒʒa	*hayʒʒi	*hayʒʒi	*k ^h ayʒʒa/i
4	<i>obda</i>	*ʔoydda	*ʔoyddu	*ʔoyddi	*ʔowirda (cf. <i>our̥tōntsā</i> ‘40’ by Cerulli)
5a	<i>učča</i>	*ʔiččaša	*ʔišičiči	*ʔiččín	*ʔuččiss(in)a < *ʔučča ‘5’ x *ʔiss(in)a ‘1’
5b				Male <i>dongo</i>	< Aroid
6a	<i>sapma</i>	*ʔusuppuna	*ʔizzi/upu	Oyda *ʔizippun	*ʔis(s)in-puna ‘1 over’
6b				*lehi	< Konsoid *lehi
7a	<i>lapma</i>	*laappuna	*lappu	Oyda *laappun	*lamʔa-puna ‘2 over’
7b				*tabza	
8a		*hospuna	*hazzuppe	Oyda *ʔospun	*k ^h ayʒʒV-puna ‘3 over’
8b	<i>nandirsa</i>				‘2 minus’
8c			*lamkučče	*lamakay	cf. <i>Dirayta lakušeti</i>
9a	<i>bíʒa</i>				‘1 {minus}’, cf. Ometo II *biʒʒo ‘1’
9b		*ʔuddupuna	*ʔodduppe	Oyda *ʔiddipun	*ʔowirdi-puna ‘4 over’
			*tamsinde		*tam-isin-de ‘10 minus 1’
				*saakali	cf. Elmolo <i>sáákal</i> , Yaaku <i>saakal</i>

	Čara	Ometo I	Ometo II	Ometo III	p-Ometo
10	<i>tansá</i>	* <i>tamma</i>	* <i>tammu</i>	* <i>taḅḅa</i>	* <i>tamma</i>
20	<i>nantansá</i>	* <i>laatamma</i>	* <i>lamʔtamm(V)</i>	* <i>lamʔtam(m)</i>	* <i>lamʔa-tamma</i>
30	<i>ke:ztansá</i>	* <i>hastama</i>	* <i>hayʒʒitamm(V)</i>	* <i>hayʒʒi- -taḅḅa / -tamm</i>	* <i>k^hayʒʒi-tamma</i>
40	<i>obda tansá Cerulli: ourtōntsā</i>	* <i>ʔoydtama</i>	* <i>ʔoydd(V)tamm(V)</i>	* <i>ʔoyddi- -taḅḅa / -tamm</i>	* <i>ʔowirdi-tamma</i>
50	<i>učča tansá</i>	* <i>ʔičatama</i>	* <i>ʔišičičitamm(V)</i>	* <i>ʔiččin- -taḅḅa / -tam</i>	* <i>ʔučšiss(in)a-tamma</i>
				Male <i>dongi-tammi</i>	
60a	<i>sapma tansá</i>	* <i>ʔisuppuna tamma</i>	* <i>ʔizup(V)tamm(V)</i>	Oyda * <i>ʔizippun tam</i>	* <i>ʔis(s)inpuna- tamma</i>
60b				Bask. <i>lèhí táḅḅá</i> Male <i>láhhí-támmi</i>	
70a	<i>lapma tansá</i>	* <i>laappun tamma</i>	* <i>laapp(V)tamm(V)</i>	Oyda * <i>laappun tam</i>	* <i>lamʔapuna-tamma</i>
70b				Bask. <i>tàbzá táḅḅá</i>	
80a	<i>nandirsa tansá</i>	* <i>hospun tamma</i>	* <i>hazzuptamme</i>	Oyda * <i>ʔospun tam</i>	* <i>k^hayʒʒʋpuna- tamma</i>
80b			* <i>lamkučetamm(V)</i>	Bask. <i>làmahái táḅḅá</i>	
90a	<i>bíža tansá</i>				
90b		* <i>ʔuddupun tamma</i>	* <i>ʔodduptamme</i>	Oyda * <i>ʔiddipun tam</i>	* <i>ʔowirdipuna- tamma</i>
90c			* <i>tamsinde- tamm(V)</i>		* <i>tamisinde-tamma</i>
90d				Bask. <i>sàakàlí táḅḅá</i>	
100a	<i>še:ta</i>	* <i>ʔšeeta</i>	* <i>ʔšeetsa</i>	* <i>ʔšeeta</i>	* <i>ʔšeeta</i>
100b				Bask. <i>gábbà</i>	
1000	< Amhara			Oyda <i>mukul</i> Bask. <i>múkìlà/múkùlà</i>	* <i>mukila</i>

Note: Ometo I = Dorze, Zala, Gofa, Malo, Dache, Gamo, Wolaitta, Kullo/Dawro; Ometo II = Koorete, Ganjule, Zergulla, Zayse; Ometo III = Basketo (= Bask.), Doko, Dollo, Oyda, Male.

Survey of Omotic numerals

	Ometo	Gimira	Yemsa	Dizoid	Gonga	Mao	Aroid
1a	* <i>ʔissi(-na)</i> attr. * <i>ʔis-ta</i> sglf.		<i>ʔis:ɔ:n^h</i> / <i>ʔisa^h</i>	Nayi <i>yisɲ</i>	* <i>ʔikka</i> < * <i>ʔis/ʕ-ka?</i>	* <i>ʔiʕ-kV/IV-</i>	
1b		* <i>mat</i>			Kafa <i>mittoo</i> sole		
1c				* <i>ʔoy</i>			
1d							* <i>kal(l)a</i> * <i>wakkal(V)</i> ~ * <i>wallaʕa</i>
2a	* <i>lamʔa</i>	* <i>nam</i>				* <i>numbo</i> ; cf. Bambassi <i>kú-lumbò</i> ‘7’	* <i>lamma</i>
2b			<i>hep^h</i> / <i>ʔep^h</i>				
2c				* <i>tagn</i>			
2d					* <i>gutta</i> / * <i>gitta</i>		
2e							* <i>ʔastan</i>
3a	* <i>k^hayʒa/i</i>	* <i>kaz</i>	<i>k^he:z²</i>	* <i>kadu</i>	* <i>keeza</i>		
3b						* <i>t/siyazi</i>	
3c							* <i>makkan</i>
4a	* <i>ʔowurda</i>	* <i>ʔod</i>			* <i>ʔawudda</i>		* <i>ʔowiddi</i>
4b			<i>ʔa^h ‘če:č³</i>				
4c				* <i>kubm</i>			
						* <i>(m)beʕsi</i>	
5a	* <i>ʔuɕiss(in)a</i> < * <i>ʔuɕča</i> ‘hand’ x * <i>ʔiss(in)a</i> ‘1’	* <i>ʔuɕ</i>	<i>ʔɔ:č³</i>	* <i>ʔuxču</i>	* <i>ʔuuɕča</i>	* <i>ʔwitsi</i> < * <i>ʔutsi</i>	
5b							* <i>donʕ</i>
6a	* <i>ʔis(s)in-puna</i>	* <i>sapm</i>	<i>ʔl¹ ‘si:ɔn¹</i>				
6b				* <i>yaku</i>			
6c	Ometo III * <i>lehi</i>						* <i>laxi</i>
7a	* <i>lamʔa-puna</i>	* <i>napm</i>	<i>‘na:fon¹</i>				

	Ometo	Gimira	Yemsa	Dizoid	Gonga	Mao	Aroid
7b	Ometo III * <i>tabza</i>			* <i>tubsun</i>			* <i>tabza</i> Dime * <i>tubsum</i>
8a	* <i>kʰayʒʒV-puna</i>						
8b	Chara <i>nandirsa</i>	* <i>nʷartin</i> < * <i>nam-ir-</i> <i>tam</i> 2-10	' <i>naŋʷri:nʷ</i>				
8c				* <i>zyed</i>			
8d	Ometo III * <i>lamakay</i>						* <i>lamkay</i>
8e							* <i>ḳastan-tam-ars</i>
9a	* <i>ʔowurdi-puna</i>						
9b		* <i>irstn</i> < * <i>ʔis-ir-</i> <i>tam</i> 1-10					
9c	Ometo III * <i>saakali</i>		' <i>ʔɪzʷgmʷ</i>	* <i>sagn</i>		Ganza <i>šélé?</i>	* <i>sall</i>
9d							* <i>walkan-tam-ars</i>
10a	* <i>tamma</i>	* <i>tam</i>	< EthSem.	* <i>tammu</i>	* <i>taNsa</i>		* <i>tamma</i>
10b						* <i>kuusV</i> = hand(s)	
100a	* <i>ʃseeta</i>		<i>ʔʷsaʷ tʰʷjaʷ</i>				
100b		* <i>bal</i>		Nayi <i>balla</i>	* <i>balla</i>		
1000a	* <i>mukila</i>						
1000b			<i>ʔʷsaʷ</i> <i>kʰʷma²</i>	Nayi <i>wuma</i>	* <i>kuma</i>		

Etymological comments

“one”

1.1. Om.: (N) **ʔis-* > Ometo attributive **ʔissi(-na)*, singulative **ʔis-ta* | Yemsa *isa* | Dizoid: Nayi *isn*; Maoid: Seze *išilê*, Mao *iškê*; maybe also Gonga **ʔikka*, if it is derivable from **ʷis-ka* (Ehret 1995, 363, #726: NOm. + ECush. **ʔis-* “self”) ||| Sem. **ʕaštay-* “1” ||| Chad.: (C) Mafa *sátá*, Magumaz *sàtáq*, Sulede *stá* (de Colombel) || (E) Mokilko *sò* “1”.

1.2. Ometo **pet(t)-* id. ||| Chad.: (C) Margi *ʔʰā.tūʷ* (J12, 262).

1.3. Gimira **maṭ-* id.; cf. Kafa *mittoo* “sole” (Cerulli) ||| or < Cush.: (E) **mat-/mit-* “1” (Sasse 1982, 143) ||| Chad.: (W) Kirfi *modi*, Bolewa *moḍi* “1” (J12, 262) ||| (C) Mefele *məṭá* “1”. Takács (1996, 136–37) offers a promising hypothesis, assuming the derivation from the appellative of

the type ECush. **math-* “head” (Sasse 1979, 36) || Beja *mat* “(top of) head” || Chad.: (C) Musgu *mada*, Vulum *mät* “head” || Eg. (OK) *mtj* “Vorsteher einer Priestergilde” (Wb. II, 168) || Sem.: Akk. *muttu* “front, forehead”.

1.4. Aroid **wəl(l)ak* vs. Dime *wokkil* id.; cf. NOm.: Koyra *wolakko* “one of two” (Cerulli) < ECush. **wal-lakk-*?

1.5. Aroid: Hamer-Banna-Karo **kala* id. There are NS parallels of the type West Nilotic **kəl* “1”; Central Sudanic **kala* “1”; Taman **kara* “1” etc.

“two”

2.1. Om. **lam-* id. || Cush.: (N) Beja *-raama* with ‘augmentative’ *r* in *asaraama* “7” (Reinisch) || (C) **lāja/lāja* id. (CDA 141) || (E) **lam(m)-* id. (Sasse 1979, 21, 25) || Dahalo *līma* id. || (S) Asa *laam* & *xlam* (Fleming) id. (Dolgopolsky 165-67: Om. + N+E+SCush.; Ehret 1995, 424, #877: Om. + Cush. **la(:)m-* + Sem. **šimaʔal* “left hand”!). Dolgopolsky (1973, 167) thought about relation to the Cushitic designation of one of “fingers”: (N) Beja *lumi* “finger” (Reinisch) || (C) Damot *layetii*, Awngi *layatii* “finger” (Conti Rossini) || (E) Oromo *elema* (Tutschek), *elemtu* (Vitterbo) “forefinger”. There are interesting parallels in NS: Kuliak: So *nebe-c*, Ik *le’be-t^a* “2” (Lamberti 1988, 124).

2.2. Dizoid **ʔagn* id. There are problematic parallels in Beja *tág^w* & *dág^w*, pl. *tagúug* “20” and Oromo (Tutschek) *diḡetam* = (Gragg) *digdama* “20”, cf. also NS: Nara *dokuta* “2” : *doko* “1” (Blažek 1999, 49).

2.3. Aroid: Ari **kašten*, Dime *kaʔim* id. || ?(N) Gongga: Mocha *qáččo* “half”, Bworo *kač*, Kafa *qaʔ’o* id., cf. also Gurage Wolano *kitto* id. (Leslau 1959, 45).

2.4. Gongga **gutt-/gitt-* id. Perhaps of Ethio-Semitic origin: Gyeto, Gogot *k^wet*, Maskat *x^wet*, Aymellel *kit*, Harari *koʔot*, *kōt* “2” vs. Tigre *kəlʔot* id. (Leslau 1963, 90; Lamberti 1993a, 316).

“three”

3.1. Ometo **hayz(z)-* | Gimira **kaz* | Yemsa *keez* | Gongga **keež(ž)-* | Dizoid **ka(:)du* id. (Ehret 1995, 228, #396: NOm. **x₂ayz-* + Chad. **k-n-d*).

3.2. ?Maoid **t/siyaz-* id. - cf. Koman (NS): Kwama *twásèn*, Opuuo *tufu / tusu*, Komo *dif* “3”, besides ECush. **šazḥ-/šizḥ-/šaz(z)ih-* “3” (Sasse 1976, 138).

3.3. Aroid **makkan* ~ **makVm* id. || Chad. (W) South Bauchi: Jimi *mwaikan*, Geji *mekan* id. || (C) Bata *mwakən*, Bachama *mùwá:kún*, Gudu *makən*; Sukur *má:k^hən*; Mafa *màkâr*, Mofu *máákâr*, Gisiga *maakar* with *-r* < **-n-*, although most of the West & Central Chadic cognates are without the prefix **ma-* (Jl₂, 326–27).

“four”

4.1. Ometo **ʔowurd-* | Chara *obdá* | Bench *od* | Gongga **ʔawudd-* id. || Aroid **ʔoydd-i* id. The form Chara *ourtoñtsā* “40” (Cerulli) allows to reconstruct pOm. **ʔaβurd-* “4”, compatible with Beja *fädig* (Roper) ~ *farig* (Reinisch), in old records *fardik* (Krockow), *ferdik* (Lucas) < **fard/dig* || (E) **ʔaf(f)ar-* ~ **ʔaf(f)ur-* || Chad. **fari-du* or **faru-di* || Eg. *fāw* m., *fāt* f. “4”, *ifd.t* “Vierheit” < **fdo3wēt* < **fida3wat* < **fidarwat* < **firadwat* (Blažek 1999, 32-36: from AA **far-* “finger”).

4.2. Yemsa *ačeeč* id. – isolated, maybe from Yemsa *očò* “foot, leg” (Lamberti), expressing “four legs” of animals?

4.3. Dizoid **kubm* id. – perhaps connected with ECush. **kub-* “finger” (Sasse 1982, 128–29) and WChad. **kUban-* “finger, fingernail” (Stolbova 1987, 211), cf. a use of this form in Sumray (EChad.) *kubi* “6” and *dénaa gúbii* “8” (Lukas) and Dahalo *kaaba* (Tosco) = *kāβa* (Ehret) “3”.

4.4. Maoid *(*m*)*beṣ-* id. – cf. Koman (NS): Kwama *bé:šin* “4”. The vector of borrowing is not clear.

“five”

5.1. Ometo *ʔiçč- | Chara *učá* | Bench *uč* | Gongga *ʔu(·)č(č) | Dizoid *ʔuxč(u(m) | ? Maoid *kutsi id. || ?Eg. (NK) *qd.t* “hand” = *qīd- > *qīwd- > Coptic “P” *kiğ*, Bohairic *ğīğ*, Sahidic *ciğ* id. (Vycichl 1983, 350).

5.2. Ometo: Male *dɔŋgo* || or < Aroid *dɔŋk id. || Chad.: (W) South Bauchi: Boghom *dāwnyi*, but Kir *to:n* id. indicates a probable Bantu origin.

5.3. Aroid.: Dime *šanne* id. < ECush.: Oromo *šan(i)* “5” (cf. Sasse 1975, 249–50).

5.4. Gongga: Anfillo *amitto* id. < HECush.: Burji *umútta* “5”, Sidamo *onte*, Gedeo *onde*, Hadiyya & Kambatta *onto* id. (Sasse 1982, 184).

“six”

6.1. Ometo *ʔis(s)in-puna | Gimira *sapm | Yemsa ʔi^l:si:on^l = “1 + *puna”.

6.2. Dizoid *yaku id.

6.3. Ometo III *lehi || Aroid *laxi < ECush.: Oromoid *lehi id.

“seven”

7.1. Ometo *lamʔa-puna | Gimira *napm; Yemsa 'na:^lfon^l = “2 + *puna”.

7.2. Ometo III *tabza || Aroid *tabza < ECush.: Oromoid *tazba.

7.3. Dizoid *tubsun || Aroid: Dime *tubsum < ECush.: Arbore *tuzba*.

“eight”

8.1. Ometo *k^hayʒʒV-puna = “3 + *puna”.

8.2. Chara *nandirsa* | Gimira *n^ʷartn < *nam-ir-tam | Yemsa 'naɲ^ʷri:n^l “8” = “2 subtracted from 10”.

8.3. Aroid *k^hastan-tam-ars “8” = “2 subtracted from 10”.

8.4. Ometo III *lamakay || Aroid *lamkay* id. = “2 minus”?

8.5. Dizoid *zyed < ECush.: Galaboid: Dasaneč *sièt*, cf. Somaloid *sizy'èèt.

“nine”

9.1. Ometo *ʔowurdi-puna = “4 + *puna”.

9.2. Gimira *irstn < *ʔis-ir-tam “1 subtracted from 10”.

9.3. Aroid *walkan-tam-ars = “1 – 10 – minus”

9.4. Ometo III *saakali | Yemsa ʔiz^lgm^l | Dizoid *sagn < ECush. *sagal(an)- “9”.

9.5. Maoid: Ganza *šéléʔ* || Aroid *sall < ECush.: Galaboid: Dasaneč *sall*.

“ten”

10.1. Ometo *tamma | Gimira *tam | Dizoid *tammu | Gongga *taNsa || Aroid *tamma id. – cf. Cush.: Beja *tamin “10” (by Reinisch also *tamún*) || Agaw *-täñən “-ty” (formant of tens) || ECush. *tomman- “10” represent a Cushitic-Omotiic isogloss (or a Cushitic loan in Omotiic) with suggestive counterparts in NS: Nilotic (South) *taman | (East) *təmən (without Bari) | (West) Lango (Conti Rossini) *tomon* “10” (isolated within WNilotic) || SESurma (Haberland): Yidenit *tómno*, Meqen *tommon*, Bodi *tómno(na)*, Mursi (*a*)*tómmon* || Kuliak: Ik *tomn^a* || Nubian: Nobiin *dimé*, Kenzi *dimin*, Haraza *timinah*, Birgid *tummun*, Meidob *timiz* || Bertha: Fadashi & Mayu (TB) *ma-θuma*, Fazoglo (Tutschek) *ma-doma* || Saharan: Zaghawa (MacMichael) *tim(i)*, all “10”, besides the compounded forms attested in Koman: Fungi (MacMichael) *diman-didin* “9” = “10 – 1”, cf. *didian* “1”, Gule (Seligmann) *dēmadidin* “9” : *dēdin* “1”. The Nilotic, Surmic and Kuliak forms are probable Cushitic loans with respect to presence of other Cushitic borrowings in these branches, including numerals. Koman and Bertha languages also are in contact with the

Cushitic languages. In last two centuries the Nubian languages were at least partially (Nile Nubian) in direct contact with Beja, but earlier probably with other Cushitic branches too (Bechhaus-Gerst). The Nubian forms are derivable from two variants: **timin* & **tammun*, with regard to regressive assimilation **tam(m)in* & **tammun*, both forms attested in Beja dialects. The Zaghawa counterpart *timm(i)* could be mediated by Meidob.

10.2. Maoid **kuusV* = hand(s).

“hundred”

100.1. Ometo **tʃeeta* “100” | Yemsa *ʔrʰsaʰ tʰrʰjaʰ* “1 x 100” – cf. ECush.: Konsoid: Dirayta *tseeta /tʃeeta/*, Muusiye *ʃeeta* “100”.

100.2. Gimira **bal* | Dizoid: Nayi *balla* | Gonga **balla* < ECush. **boqol-* id.

“thousand”

1000.1. Yemsa *ʔrʰsaʰ kʰoʰmaʰ* “1 x 1000” | Dizoid: Nayi *wuma* | Gonga **kuma* “1000” < ECush. **kuma*.

1000.2. Ometo **mukila* “1000”.

Sources of Omotic

(* = <<https://mpi-lingweb.shh.mpg.de/numeral/Afro-Asiatic.htm>>)

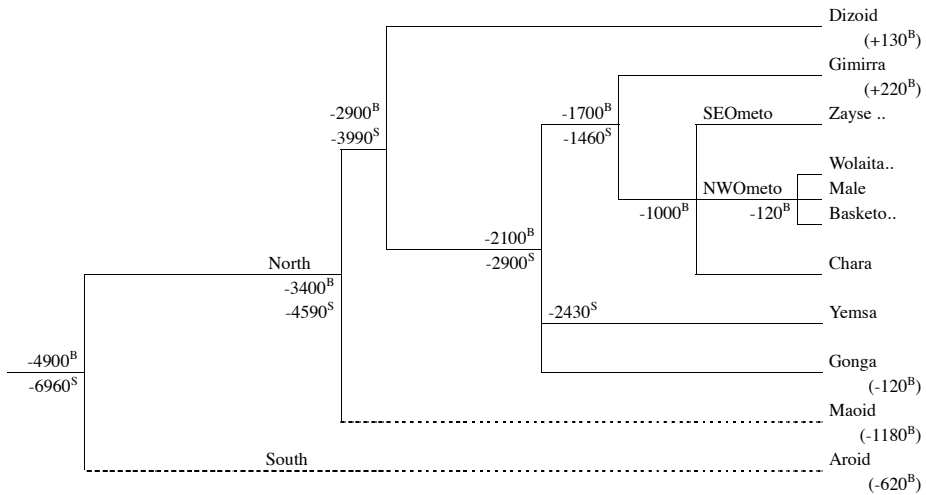
Anfillo = Southern Mao: Amanuel* (2012); **Bambassi** = Northern Mao: Michael Ahland* (2008); **Bakko**: de Trento (1941); **Basketo**: Yvonne Treis* (2013); **Bench**: Mary Breeze* (1995); **B(w)oro₁** = **Shinasha**: Rottland* (1990); **B(w)oro₂** = **Shinasha**: Lamberti* (1993), Plazikowski Brauner (1950); **B(w)oro₃** = **Shinasha**: Beke apud Vinigi Grottanelli (1941); **Chara**: Aklilu Yilma* (2008); **Dache of Gamo**: Sellassie Cheru* (2012); **Dime₁**: Marvin L. Bender* (1989), Ralph Siebert* (2002); **Dime₂**: Mulugeta Seyoum Gebeyaw* (2008); **Dizi**: Marvin Beachy* (2008) / Allan (1976); **Doko**: Harold Fleming (1971); **Dollo**: Carlo Conti Rossini (1927); **Dorze**: Sellassie Cheru* (2012); **Galila**: Harold Fleming (1971); **Gamo**: Samuel Gonderie* (2012); **Ganjule₁**: Fitsum Abate* (2012); **Ganjule₂**: Harold Fleming (1971); **Ganza**: Girma Mengistu Desta* (2012); **Gats'ama** = **Kachama**: Ralph Siebert (1994); **Gofa**: Sellassie Cheru* (2012); **Hamar**: Sara Petrollino* (2014); **Hamar-Banna**: John Chan* (1996); **Hozo₁**: Marvin L. Bender* (1989) / Charlotte Wedekind, Klaus Wedekind & Ralph Siebert* (2002); **Hozo₂**: Getachew Kassa Bahiru* (2012); **Kafa**: Kifle Meshesha* (2012); **Karo** = **Kerre**: Carlo Conti Rossini (1927); **Koorete**: Lydia Hoef* (1996, 2013); **Kullo**: Borelli (1890); **Male**: Azeb Amha* (2007); **Malo**: Harold Fleming (1971); **Nayi** = **Na'o**: Aklilu Yilma* (1995); **Oyda**: Bernhard Köhler* (2012); **Seze₁**: Marvin L. Bender* (1989) / Charlotte Wedekind, Klaus Wedekind & Ralph Siebert* (2002); **Seze₂**: Girma Mengistu Desta* (2012); **She**: Carlo Conti Rosini (1925); **Shekkacho** = **Mocha**: Tolemariam Fufa* (2007); **Sheko**: Aklilu Yilma* (1995); **Ubamer**: Harold Fleming (1971); **Wolaitta₁**: Sellassie Cheru* (2012); **Wolaitta₂**: Azeb Amha* (2007); **Yemsa**: Hans Schaumberger* (1998); **Zala**: Enrico Cerulli (1929); **Zargulla**: Azeb Amha* (2007); **Zayse**: Enrico Cerulli (1938b).

Sources of Nilo-Saharan – Koman

(* <https://mpi-lingweb.shh.mpg.de/numeral/Nilo-Saharan.htm>)

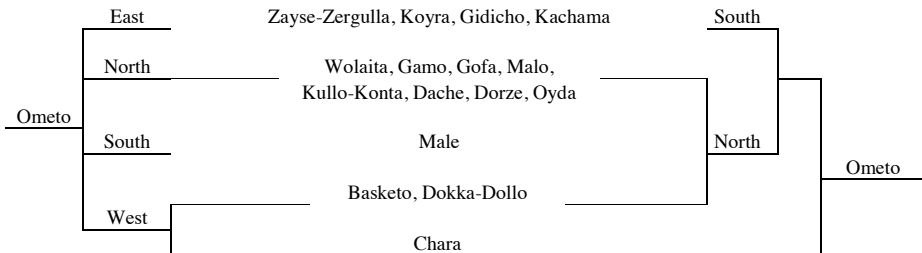
Komo₁ – Manuel Otero* (2014); **Komo₂** – Klaus Wedekind* (2002); **Kwama** – Andargachew Getu Gebeyehu* (2013–2014); **Opuuo** – M.Lionel Bender* (1989); **Twampa** = **Uduk** – Don Killian* (2012)

Omotic Classification

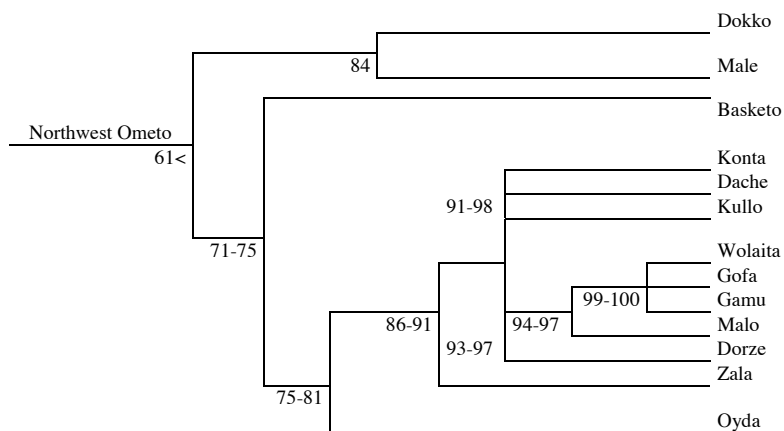


See Václav Blažek, Afroasiatic migrations. In: *The Encyclopedia of Global Human Migration I*, ed. by Immanuel Ness & Peter Bellwood. Oxford: Wiley-Blackwell, 2013, 125–132. B = Blažek; S = G. Starostin.

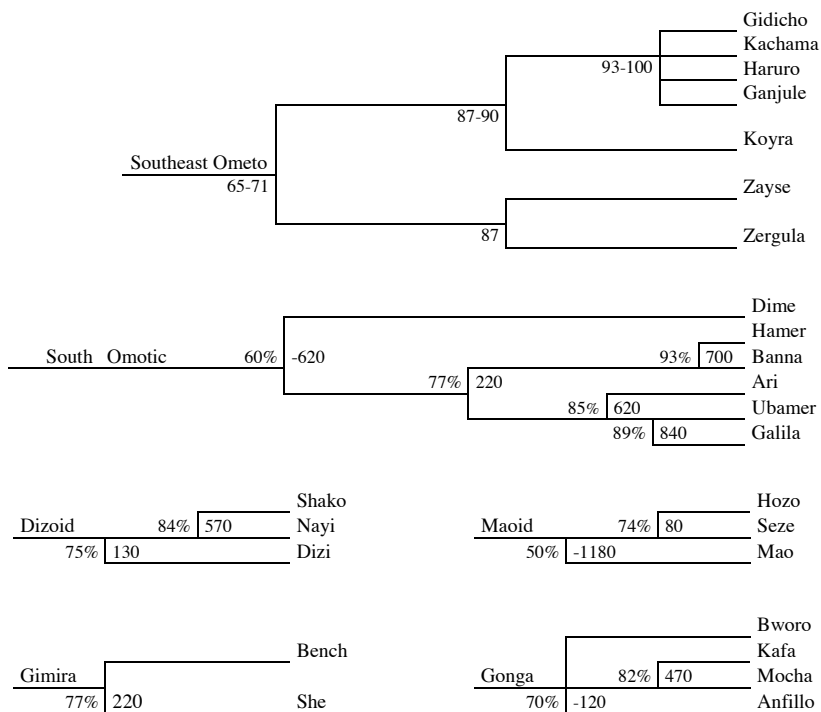
In the recent time there were proposed two models of the genetic classification of the Omoto dialect continuum: by Fleming (1976) and by Bender (1988) – here left and right respectively. Their results can be compared as follows (see Hayward, *OLS* xi–xii):



In his monograph Bender (2003) offers more exact results. He divides the Omoto cluster into three parts, Northwest, Southeast and Chara. The internal structure of the Northwest group of Omoto can be constructed on the basis of Bender's figures as follows (p. 51; the figures represent percentages of common cognates):



The internal classification of the Southeast Omoto (pp. 79–81):



Abbreviations

Akk. Akkadian; Amh. Amhara; Arb Arbore; Bask. Basketo; Bk Bako; Bn Banna; Bu Burji; C Central; Chad. Chadic; Cu(sh) Cushitic; D Dalpena; Dah Dahalo; Dob Dobase; E East; Eg. Egyptian; Eth. Ethio-; Ga Gawwada; Go Gollango; Gu Gumuz; H Highland; Ha Hadiyya; Hm

Hamar; Hrs Harso; J Jinka; Kal Kalenjin; Kmb Kambatta; Ko Konso; Kr Karo; Kw. Kwegu; N North; Nil Nilotic; NS Nilo-Saharan; Nu Nuer; Nub Nubian; Om Omotic; Or Oromo; p- proto-; S South; Sem. Semitic; Sh Saharan; Shil Shilluk; Si Sidamo; Som Somali; Sw. Swahili; Te Teso; Ts Tsamay; W West.

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