Layers of the oldest Egyptian lexicon VIII: Numerals*

This paper belongs to a series of publications whose goal is to survey the most ancient part of Egyptian basic lexicon, classified by semantical domains, in order to stratify the different lexical layers (wherever they are present) in the light of Semitic vs. African Afro-Asiatic dichotomy, which was already suggested by P. Lacau several decades ago. The current paper focuses on the etymologies of Egyptian numerals.

Keywords: Ancient Egyptian, Afro-Asiatic languages, etymology, historical phonology, numerals.

In memoriam A. Zaborski (1942–2014)

Introduction

The first part of my series “Layers of the oldest Egyptian lexicon”¹ re-examined the controversies of P. Lacau’s (1970) old observation on a binary opposition of certain items of Ancient Egyptian anatomical terminology in the context of many new results issuing from current progress in Afro-Asiatic (Semitic-Hamitic) comparative linguistics. The etymological examination of Ancient Egyptian anatomical terminology presented therein has corroborated a surprising distribution: one member of the synonymous pairs is usually a Semitic word, whereas the other one(s) has/ve non-Semitic cognate(s) solely attested in some of the African branches of our language macrofamily. A relatively deeper presence of the extra-Semitic vocabulary in Egyptian has also become apparent. The subsequent papers in this series (“Layers of the oldest Egyptian lexicon II–VII”) focused on the rest of the Ancient Egyptian anatomical terminology,² led by the wish to see to what degree this etymological dichotomy was characteristic there,

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This paper is a farewell to my dear senior Semito-Hamiticist fellow, my unforgettable *Doktor- and Habilitationssvater* (ELTE, Hungary, June 1998 and October 2003, resp.), whose tragical premature passing away (autumn 2014) I cannot comprehend, to whom I owe so much. His famous studies on the Omotic and Cushitic numerals (1983 and 1987, resp.) are also considered here.

¹ Takács, G.: Layers of the Oldest Egyptian Lexicon I. *Rocznik Orientalistyczny* 68/1 (2015), 85–139.

² Part II deals with the Egyptian anatomical terminology for parts of the head and the neck, which is published in *Rocznik Orientalistyczny* 69/1 (2016), 59–124. Part III (with an etymological study on the upper torso) is planned to appear in *Rocznik Orientalistyczny* 69/2 (2016). Part IV (terms for the lower torso), V (parts of the foot), VI (back parts of the body and below), and VII (terms pertaining to the body in general, e.g., skin, flesh, blood etc.) are still being prepared, but not yet ready for publication, although the relevant raw lexical materials have already been accumulated and so certain preliminary impressions are already available.

with the outcome that the overwhelming majority of Egyptian body part names was merely South Afro-Asiatic.

Now, as in my previous communications, the Egyptian numerals, as part of the basic vocabulary, are examined from the same standpoint so that we can see these diverse (South vs. North Afro-Asiatic) layers of our numeralia. May this paper express my high esteem and affection for our great Master in comparative Afro-Asiatic (Semitic-Hamitic) studies, whose department at the Jagellonian University of Kraków was the only one in the world devoted to Afro-Asiatic linguistics in the recent decades.

Eg. $\sqrt{w\dot{f}}$ “eins” (OK–, Wb I 273–276): in spite of the many unsuccessful attempts at its Afro-Asiatic etymology made over the past one and a half of a century,³ only recently has W. Vycichl (DELG 518), followed by A. Ju. Militarev (in Starostin et al. 1995, 23), found its phonologically completely satisfactory cognates, which only appear in Semitic, where the latter scholar reconstructed the underlying root as $\sqrt{w\dot{f}y}$ “to sweep together”, cf. OT Hbr. $\sqrt{y\dot{f}y}$ qal (hapax, Is. 28:17) “wegraffen”, hence $y\dot{a}\dot{f}im$ (pl.) “Schaufeln” [GB 306–7] = $\sqrt{y\dot{f}y}$ “to sweep away (hail)”, hence $\sqrt{y\dot{a}\dot{f}}$ or $\sqrt{y\dot{a}\dot{f}e(h)}$ “shovel to clean the altar” [KB 419] = $\sqrt{y\dot{f}y}$ “to sweep together and carry away” [Klein 1987, 261a] | OSA $\sqrt{y\dot{f}y}$ “to snatch away” [Müller quoted in KB], Ar. $\sqrt{w\dot{f}y}$ I: $w\dot{a}\dot{f}\dot{a}$ “1. rassembler, ramasser, réunir sur un seul point, 5. s’amasser sur un seul point (se dit, p.ex., du pus dans la plaie), 6. être guéri (se dit d’un os fracturé dont les éclats se réunissent)” [BK II 1570] = “sammeln” [GB] = “to collect, hold” [KB] = “umfassen, enthalten” [Lsl.]. Besides, it is this root that, following F. Rundgren (1961, 121–127) and W. Leslau (1987, 23), also the Semitic term for “Eingeweide” (usually taken from $\sqrt{m\dot{f}y}$), is derived from an assumed primary stem $\sqrt{m\dot{f}w\dot{f}ay}$ “(etwa) Sammlungsart, Gefäß”.

Eg. $\sqrt{sn}$ (hence masc. dual $sn.wj$, fem. $sn.tj$) “zwei” (OK–, Wb IV 148) is identical with Sem. $\sqrt{tn}$ “2” [Djk.] = $\sqrt{tny}$ [Vcl.] ||| Brb. $\sqrt{sn}$ “2” [Mlt. 1991, 167],⁴ i.e., this numeral root is only at-

³ The most widespread etymology was its combination with Ar. $\sqrt{w\dot{h}d}$ and its Semitic kindred, cf. Sethe 1916, 21, §1; Ember 1917, 87, #134; 1926, 305, #3.4; Albright 1918, 90; 1927, 200; Behnk 1927, 81, #7; ESS §5.c; Dolgopolskij 1967, 300, #5; Schenkel 1997, 114. In addition to this Eg.-Sem. comparison, which was rightly declined already by V. Blažek (1999, 30, §4.1), several scholars, e.g., L. Reinisch (1874, xii, fn. 3), F. Behnk (1928, 139, #18), E. Zyhlarz (1931, 134–135; 1950, 407), Ju. Zavadovskij (1967, 43; 1974, 105; 1975, 45), and then E. Lipiński (1997, 284, §35.3.e) suggested further cognates in NBrb. $y\dot{e}n$ (m), $y\dot{e}t$ (f) and SBrb. $i\dot{y}e$ (m), $i\dot{y}e$ (f) “1” [Zhl.] derived by E. Zyhlarz from $\sqrt{w\dot{g}y}$ (1931) and later even from an artificial $\sqrt{w\dot{f}y}$ (1950) or most surprisingly by E. Lipiński (l.c.) from a $\sqrt{w\dot{a}\dot{f}(-n)}$. V. Blažek (1987 MS, §1.2; 1990, 34; 1999, 30, §4.1), in turn, identified both Sem. $\sqrt{w\dot{f}y}$ and Eg. $w\dot{f}$ (in 1990, strangely, only Eg. $w\dot{f}$) with the Berber numeral for “1”, whose Proto-Berber etymon has been recently reconstructed as $\sqrt{y\dot{i}w\dot{a}n}$ -at [Prs.] = $\sqrt{y\dot{a}N/T}$ [Zvd.] = $\sqrt{iyyaw}$ -an/at (m/f) [Mlt.]. L. Homburger (1928, 335 along with many other untenable non-AA parallels) and H. Abel (1933–34, 305) connected Eg. $w\dot{f}$ to Common Nubian $\sqrt{w\dot{e}r}$ “1”. Similarly, W. Leslau (1962, 47, #27, cf. Conti 1978, 43, fn. 5) assumed a relationship with ES: Tigre woro “1”. Both suggestions suffer from the fact that the correspondence of r to Eg. $\dot{f}$ is irregular. M. L. Bender (1975, 179), in turn, affiliated the Eg. numeral with SCu.: WRift $\sqrt{wak}$ - “1” [GT pace Zbr. 1987, 343], in which, however, there is no trace of the $\sqrt{f}$. In addition, as Ch. Ehret (1980, 312) pointed out, the WRift term is “probably” juxtaposed from two demonstrative roots ($\sqrt{wa}$ + $\sqrt{ka}$), which is certainly not the case of Eg. $w\dot{f}$. V. Blažek (1990, 34; 1993 MS, 3, §1.9) too, beside the Berber parallels (above), could not resist comparing SCu.: Ma’a (Mbugu) $w\dot{e}$ “1” [Green, Wtl.] and WCh.: Karekare $w\dot{a}ik\dot{e}$ “each, all” [Krf.], where he singled out an “element” $\sqrt{wV}$ “1”.

⁴ See Hommel 1883, 96, §11; Erman 1892, 118; Sethe 1916, 19, §2; Albright 1918, 91; 1926, 189; 1923, 68; 1927, 200; Ember 1926, 305, n. 7; Farina 1926, 15; Behnk 1928, 140, #44; ESS §11.a.50; Zyhlarz 1931, 135, §2; Vycichl 1955, 310; 1958, 378, 399; 1974, 62, §5; D’jakonov 1965, 46; 1974, 742; 1986, 61; Hodge 1968, 27, #113; 1981, 410; 1990, 646, §9.A; Zavadovskij 1967, 43; 1974, 106, §6.1; 1975, 45–46; Dolgopolskij 1973, 111; Bender 1975, 194; Belova 1989, 14; Militarev & Stolbova 1990, 56; Militarev 1991, 75; Dombrowski & Dombrowski 1991, 343; Lipiński 1997, 284, §35.4; Blažek 1999, 30–31, §4.2.

tested in the northern branches of the Afro-Asiatic macrofamily of languages. Elsewhere, it is unattested with *-n. The Semitic root has, however, also a heteroclitic variety with *-r, which may be traced back even on the Proto-Afro-Asiatic level, cf. AA *čir- ~ *čar- “two” [GT] > Sem. **tir- > *tər- “two” [GT]⁵ || presumably SCu.: WRift *čar- (unless < *čad-) “two” [GT]⁶ || PCh. *√čr “two” [GT].⁷ The Sem.-SCu.-Ch. etymology was first suggested by V. Blažek (1987 MS, 8–9, #2.2; 1990, 36). Which of these root varieties (AA *√čn vs. *√čr “2”) is to be considered as the primary one is not to be answered here. It is, however, noteworthy that only Semitic has both of them.

Eg. √hmt (hence occurring as masc. pl. hmt.w, fem. hmt.t) “drei” (OK–, Wb III 283): the mystery of its origins has sometimes led to sometimes to absurd etymologies.⁸ In his prestigious LÄ article on Egyptian numerals, A. Loprieno (1986, 1308), however, all too hastily and carelessly remarked that “*eine überzeugende Etymologie liegt nicht vor*”, which was by far not true even in his day. Surprisingly, he overlooked and did not even quote the most hopeful approach suggested at that time by a number of outstanding comparatist authors like A. Trombetti (1902, 196, §3), C. Meinhof (1912, 233), and M. L. Bender (1975, 192), who all combined the Egyptian numeral with NOm.: Kafa kāmō “3” [Rn. 1888, 56] = kēmō [Mnh.] = kēmō [Crl. 1951, 461] = keymo [Bnd. 1971, 259], a numeral apparently standing totally isolated within Omotic. Whether the similarly isolated WCh.: Karekare kumu (sic, -m-) “3” [IL apud JI 1994 II 326]⁹ is, in fact, also cognate, is hard to determine as elsewhere in the West Chadic daughter

⁵ Attested in Biblical Aram. tərēn, fem. tartēn [GB 931], Mandaean tartin ~ atrin [Drower], Neo-Aram. itr(i), fem. tare(i) [Bergsträsser], Neo-Syriac trī ~ tirti ~ tirwē ~ tarwē [Kutscher] (NWSem.: KB 2009) || MSA: Soqotri tro (tiro) ~ (poetical) tróho (so, t-) [Lsl. 1938, 445] = trō, fem. trih [Jns.], Harsusi tərō, fem. tərēt [Jns. 1977, 133], Jibballi troh, fem. trut [Jns. 1981, 285], Mehri tru (tru), fem. trit [Jahn] = tərō ~ troh, fem. ətrāyt ~ trēt [Jns. 1987, 418].

⁶ Based on the equation of Iraqw tsar and Burunge čada (WRift: Ehret 1980, 229, #4).

⁷ Attested in WCh.: Nbauchi *čir ~ *čar [GT], cf. Jimbin šir [Skn.], Pa’a čirū [MSkn.] = čiru [IL], Siri bi-čäre (ch-) [Gowers] = bā-čār [Skn.] = bū-čār [IL] (prefix bV- of numerals), Miya čir (ts-) [Skn.], Mburku čar (ts-) [Skn.] (NBCh.: Skinner 1977, 33) | Bade sērīn [IL], Ngizim širīn [Schuh] = širīn [IL] || CCh.: Musgoy sray [Mch.], Daba sraj [Pascal] = sērāy [Lienhard], Kola sārāy [Schubert] || ECh.: Sumray sār [Jng.], Tumah heē [Caprile], probably < *sēr [GT] | WDangla sèr, sèrō [Fédry], Migama sê:rà [Jng.], Mokilko siré [Jng.] | Mubi-Toram *sir(i) [GT] > Mubi sīr [Lks. 1937, 185] = *sīr [Bnd.-Drn. 1983, 78, #90] = sir [Jng. 1990 MS, 42], Birgit sīrī [Jng. 2004, 358], Minjile *sir [Bnd.-Drn. 1983, 78, #90], Kajakse *siri [Bnd.-Drn. 1983, 78, #90], Masmaje sirri [Alio 2004, 284, #151], Toram see [Alio 2004, 262, #397], Jegu šee [Jng. 1961, 117], Kofa sèy [Jng. 1977 MS, 16, #402].

⁸ W. M. Müller 1907, 303, fn. 1; Sethe 1916, 21, §3; Albright 1918, 91; 1927, 199; Farina 1926, 14; ESS §10.a.33: Eg. hmt < *hnt < *šnt < *šlt < *tlt ~ Sem. *talāt- “3”. K. Sethe (l.c.) remained neutral with hesitation: “... aber m mit sem. l, t mit t zu identifizieren, fehlt mir vorläufig doch der Mut”. M. M. Bravmann (1933, 148–149) assumed Eg. hmt < *hlt < *flt < *tlt allowing even that “there is no problem with m < l in Egyptian” without further evidence. Even W. Westendorf (1962, 27, fn. 1) mentioned the alleged cognacy of Eg. hmt vs. Sem. *talāt- among the instances of the interchange of Eg. m ~ n (sic). A. Ember (1917, 88, fn. 1), in turn, was “inclined to believe” in its cognacy with Sem. *√hms “5”. K. Sethe (1916, 23, fn. 2), following this idea, assumed that there “war bei der Trennung der beiden Sprachzweige noch ein unbestimmter Vielheitsausdruck, den der erste Zweig dann für das eine, der andere für das andere absterbende Zahlwort einsetzte, which A. Loprieno (1986, 1315–1316, n. 18) rightly doubted: “vermag ich weder phonologisch noch semantisch zu verstehen”. L. Homburger’s (1928, 336) African parallels (outside AA, such as, e.g., Bantu satu, Agni nsâ) are evidently out of the question equally for phonetic reasons. Ju.N. Zavadovskij (1967, 43; 1974, 107, §7; 1975, 47, §7.0) put forward his strange idea that Brb. √krđ “3” “соответствует до некоторой степени” to Eg. hmt (1967 l.c.: “параллелизм здесь выражен цепочкой ‘гортанный + сонант + зубной’”; 1974 l.c.: both roots are of parallel structure: post-palatal + sonant + dental), which V. Blažek (1999, 63, §3.1) has already correctly rejected as it “does not respect any known phonetic law”.

⁹ Note that J. Lukas (1966, 202) recorded Karekare kúúnù (sic, with -n-), which is, contrary to the record made by the IL with the unexpected anomalous -m-, in accordance with the rest of the comparative evidence usually gained from West Chadic.

language groups (Angas-Sura, Ron, Bole-Tangale), there seems to emerge a proto-form *k_{un}-“3” [GT] = *k_{unu} [Stl. 1987, 209, #595].¹⁰ But where is the trace of a dental plosive C₃ in Kafa and Karekare? Nowhere, in fact. This lack of the third radical makes me doubt this Egypto-Chadic comparison and search further.

The West Chadic biradical root was handled, e.g., by H. Jungraithmayr and D. Ibrisimow (1994 I 168A) as a remnant of their triradical PCh. *√knd “3” via apocopy. Interestingly and astonishingly, this is precisely the very same sequence of those root consonants that Eg. √hmt also represents, i.e., velar + nasal + dental! All three radicals of this Proto-Chadic triradical root have been preserved until now, with the necessary *Lautverschiebungen*, of course, by the following daughter languages: WCh.: Jimbin k_əndí [Skn.], Diri hyíinzù [IL] = hínzù [Skn.] < *kind- [GT] || CCh.: PMasa *h_{indi}, regular < *Kindi “three” [GT]: Banana yìnti(di) [Krf.] = yìnti [Zima], Musey hindi [Krf.], Gizey/Wina, Ham, Musey, Lew, Marba h_{indi} [Ajl. et al. 2001, 56], Lame hinzi [Lks. 1937, 139] = hínčìrì [Krf.] = hínzìrì [Scn. 1982, 516], Zime-Batna híđi [Jng.] = hínđìrì [Scn.], Peve hínžì [Krf.], Zime-Dari hinyi < *hinžì < *hindi [Str.] = hinyi [Lks. 1937, 139] = hinžì? [Venberg 1975, 41], Zime-Misme hindi [Krf.] (Masa group: Zima 1990, 268; Ch. data: JI 1994 II 326–7). In the light of these data, the reconstruction of PCh. *√knd “3” [JI] might be modified on two points. First, the correspondence of k- in the majority of the Chadic daughter languages to h- in the Masa group speaks for a PCh. fricative *h- (cf. Stolbova 1996, 68, §I.6, table 6) and not a plosive *k-. Secondly, the glottalized *-đ is not really supported by any of the reflexes listed above, where we mostly find either plain -d or its palatalized sequence (-ž > -y), which is not at all a typical phenomenon with a glottalized dental plosive and evidently indicates *-d. All in all, if the cognacy between PCh. *√hnd || Eg. √hmt “3” is true, it is to be explained by the circumstance that the cluster -C₂C₃- of PCh. *h_{ind}- resulted from a voicing process (influenced by *-n-)¹¹ and an assimilation ultimately from **h_{imt}- [GT]. To the best of my knowledge, so far nobody (not even V. Blažek in his exhaustive 1999 book on the numerals in Afro-Asiatic and Indo-European) has suggested this Ch.-Eg. comparison.

In a number of Chadic reflexes of this (?) root, the medial nasal radical is not reflected, only a velar C₁ (*k-) and a dental C₂ (possibly *-d), i.e. *√kd or sim.¹² These Chadic forms may be akin to ECu.: Yaaku h_{āt} “3” [Heine quoted by Zbr. 1987, 342], regularly derivable from a hypothetical ECu. **k_{ād}- [GT], which is completely isolated within the whole Cushitic family. Does the underlying etymon, in fact, represent the ultimate biconsonantal root? In addition, H. G. Mukarovsky (1987, 35) combined these reflexes with NOm. *√kd/z “3” [Mkr.] = *√h_z [Zima] = *Ka_{zu} > *Kaw_z- > *Kay_z- [Blz. 1990, 39] < *h_{ayd}- [GT],¹³ which only confirms the sup-

¹⁰ O. V. Stolbova (l.c.) was unaware of the Tal and Goemay data, which betray a glottalized *k- instead of plain *k-.

¹¹ The same voicing effect of the nasal has been observed in the cluster -nC- throughout the whole Egyptian *Sprachgeschichte*, cf. the shift of Cpt. (S) nc > nz attested in Eg. ʔ.t-n.(t)-sb? “school” > (SF) ancybe, (SL) ancyb, (S) anZybe, (B) anZyb, etc. (KHW 8); cf. already the OEg. alphabetic writing nzw for nsw “king”, which was certainly vocalized as *j/ʔinsiw with a cluster *-ns- as cuneiform evidence from the 13th century BC also indicates (Wb II 325–9; Sethe 1911, 16–30; 1912, 98; Farina 1926, 16; ÜKAPT IV 54, ad PT 814c; AÄG 51–52, §116).

¹² Cf. WCh.: (?) Bokkos ʔátát [Jng.] < *h_{ad}- (?) [GT] | Warji k_óžì [Jng. and Skn.] = k^háži (-dz-) [IL], Tsagu k_{ád} [Skn.], Kariya and Miya k_{ád} [Skn.], Pa’a k_{ád} [Jng. & MSkn.] = k_{adu} [IL], Siri bu-kudde [Gowers] = bù-kúdi [IL] = bu-kúdi [Skn.], Mburku kídí [Skn.] || CCh.: Mandara k_óžə [Mch.] = kíʔže [Meek] = kíʔžé [Eguchi] < *ki[r]de (?) [GT] | Masa hídí [Mch. 1950, 59, so also Krf.] = hídí? [Jng.] = [hídí]¹² [Ctc. 1983, 88] = hídí “trois” [Ajl.], Masa-Bongor hídí? “trois” [Jng. 1973 MS] || CCh.: Mandara k_ədye [Wolff 1974, 16] || ECh.: (???) Mokilko ʔádó (perhaps < *h_{ad}-, cf. k_{ád}uwé “zum dritten Mal”) [Lks.] (Ch. data: JI 1994 II 326–7).

¹³ Cf. NWometo *h_{ayz}- [GT]: Welamo hezzā [Moreno] = həza [Bnd. 1971, 252] = esa, eza, heza [Chiomio 1938, 4; Da Trento 1941, 206], Gofa heža (-dz-) [Moreno], Zala hezzā [Moreno], Malo héza [Moreno], Kullo hezu [Allan

position of an ancient biliteral root. If this latter scenario is true, we would have to assume a PAA * $\sqrt{h}d$ [GT], which, however, contradicts the development of PCh. * $\hbar ind$ - < ** $\hbar int$ - < ** $\hbar imt$ - [GT] outlined above and possibly also the equation with Eg. $\sqrt{h}mt$.

It is very probable that CCh.: PDaba *makad “3” [GT]¹⁴ represents merely the same biconsonantal root (* $\sqrt{h}kd$ or sim.) extended by an m- prefix instead of being the reflex of a hypothetical AA * $\sqrt{m}hT$, i.e., the metathetic cognate of Eg. $\sqrt{h}mt$ “3”, however tempting this may seem *prima vista*.

Eg. $\sqrt{h}mt$ “3” was identified by C. Meinhof (1907, 123; 1912, 233),¹⁵ E. Zyhlarz (1931, 135–136, §3), W. Vycichl (1959, 33), H. G. Mukarovsky (1987, 45), and V. Blažek (1987 MS, 14–15, §3.1; 1990, 38; 1993 MS, 5, §3.1; 1999, 32, §3)¹⁶ with the Bed. numeral “3”, which was apparently constructed on the root $\sqrt{m}hy$.¹⁷ Although J. D. Wölfel (1954, 5; 1965, 617) voiced only his reservations against this Eg.-Bed. comparison and in A. Zaborski’s (1987, 319) view too, “*this is phonologically rather improbable*”, one is tempted to ponder whether Zyhlarz (l.c. supra) was correct, having ingeniously envisaged a PBed. *māhādi (or sim.) on the basis of the supposed shift of Bed. y from an earlier palatalized dental, which is in fact valid for Bed. y = ECu. *z, cf. Bed. hayūk “Stern” [Rn. 1895, 133] || LECu.: Somali haḍig [Rn.] = ḥiddig [Sasse] = hadig [Zhl.] < ECu. *hizk-/huzk- “star” [Sasse 1979, 35 etc.]. Following this scenario, one might be inclined to surmise in both PBed. *mahadi “3” [Zhl.] and CCh.: PDaba *makad “3” [GT] (above) the same m- prefix extension of the same root. On the other hand, it is equally inspiring to observe — together with H. G. Mukarovsky (1987, 45) — the closeness of Bed. $\sqrt{m}hy$ to WCh.: Sbauchi * $\sqrt{m}Ky$ (perhaps * $m^{(w)}ā[h]ay?$) “3” [GT],¹⁸ since the latter can by no means be explained from *ma-ḥad (or sim.) the same way as in Bedawye, and — even more interestingly — the common

1976, 330] = hēza [Bnd. 1971, 252], Dache heža (-dz-) [Bnd. 1971, 253], Dorze hēza (-dz-) [Bnd. 1971, 253] = heiza [Flm.], Male hāyco (-yts-) [Da Trento 1941, 206; Bnd. 1971, 255], Oyda hāyzi (-dz-), oyddi [Bnd. 1971, 254] (NWometo: Moreno 1938, 37) | SEOmeto *hayz- [GT]: Zayse hayc (-ts) [Crl. 1938 III, 194], Zergulla hayc (-ts) [Bnd. 1971, 257], Gidicho hāyzi (-dz-) [Bnd. 1971, 256], Koyra hayze (-dz-) [Hayward, also Bnd. 1971, 252], Mezo hayzi (-dz-) [Chiomio 1938, 235], Basketo hayzzā [Crl. 1938, 108] = hay/d/zi [Bnd. 1971, 254], Doko oyzē [CR 1927, 248] = hāyza [d’Abbadie apud CR l.c.], Dollo ayz [CR 1927, 250] | Dizoid *kad(d)u [GT]: Dizi kadu [Toselli 1938, 13] = kādú [Allan 1976, 381] = kaddu [Crl. 1951, 309], Sheko kaddu [CR 1925] = kādu [Bnd. 1971, 262] = kādem [Crl. 1951, 309], Nao kaddu [CR 1925] = kādu, kaddō [Bnd. 1971, 262] | Janjero kēz [Crl. 1938 III, 57] | Chara kezā [Crl. 1938 III, 151] | Gimirra kazu [Toselli 1939, 35], She kaz [CR 1925], Bencho kəz [Bnd. 1971, 260] | Kefoid (or Gongga) *kežž- [GT]: Kafa kažā (-ğ-) [Rn. 1888], Mocha kăžžō (-ğğ-) [Lsl. 1959] = kežo (-ğ-) [Bnd. 1971, 260], Shinasha (Bworo) keza [Schuwer in Grottanelli 1940, 103] = ke’ža (-’ğ-) [Grottanelli 1941, 266] = kēze [Brauner 1950, 70] = kēzza [Bnd. 1971, 259], Anfillo kežžō (-ğğ-) [Grottanelli 1940, 103] = ke’žō (-’dj-) [Bnd. 1971, 258] (NOM. Data: Zbr. 1983, 384–387). Note that V. Blažek (1990, 39) erroneously explained the NOM. stem from his AA *žaKu “3” via metathesis based on his comparison with Agaw *seq^w/γ^wa “3”, Piraqw *dakati “8”, WCh.: Hausa takwas “8”, CCh. *tVkwazV “8”.

¹⁴ Attested as Musgoy makat [Mch. 1950, 59] = maakaa (sic) [Str.], Daba makat [Mch. 1966, 133] = maakaa (sic) [Str.] = makāḍ [Lienhard], Hina maakáa (sic) [Str.], Kola makāḍ [Schubert] (CCh.: Str. 1910, 456).

¹⁵ In his paper from 1912 he meant this comparison beside the Kafa root $\sqrt{h}km$ for “3”.

¹⁶ Zyhlarz equated at the same time the Eg. numeral also with the Guanche term for “3”.

¹⁷ Recorded as (Bisharin) meháy ~ máhi ~ maháy [Almkvist 1885, 46] = (Hadendo, Halenga, Bisharin) emhá/áy ~ meháy ~ maháy ~ seldom mēhá/áy [Rn. 1894, 10; 1895, 18, 167] = mēhéy [Roper 1928] = mhay [Bnd.] = (Arteiga) mhàý ~ miháy [Hudson] = (Hala/enga) maháy [Rn.] = (Ammar’ar) mhāyy-t (f) vs. mhāyy-b (m) [Dlg.] (Bed. data: Dlg. 1973, 319; Zbr. 1987, 328; 1989, 589, #85).

¹⁸ Attested in Boghom mói ~ mòì [Jng.] = mwày [Smz.], Zangwal maya [Smz.], Wangday mà-kí [IL] = mà:kai [Smz.], Zaranda maaki [Smz.], Dokshi mààyi [Smz.], Dikshi and Bandas mààgi [Smz.], Boodli (Zumbul) mààya [Smz.], Zodi (Dwa/ot) mààgai, Zakshi mààgi [Smz.], Boot, Zaari, Sigidi mààki [Smz.], Zaar máì [IL] = mà:yi [Smz.], Zaar of Kal mààyi [Smz.], Zaar of Gambar Leere màài [Smz.], Zaar of Lusa maayi [Smz.], Tala mee [Smz.], Sho (Ju) miyaa [Smz.] (Sbauchi data: Shimizu 1978, 39, #76).

biradical root $\sqrt{hy}$ that might in principle be singled out by assuming an *m*- prefix here, also finds a surprising match in the southernmost extremity of Cushitic, namely SCu.: Ma'a kaí ~ hai "3" [Ehret], which is similarly attested with a prefix *mi*- (this, in turn, being from Bantu), cf. Ma'a mi-hai "3" [Mnh. 1906, 314]. As for the Southern Cushitic background of the Ma'a numeral, Ch. Ehret (1980, 249, #C2) suggests a comparison with Dahalo káβa "3". The loss of final consonants is indeed an attested feature of Ma'a *Lautgeschichte*. The problem is, however, that in the Ma'a *Auslaut* we have a -y (and not zero as expected) that can hardly be regarded as a trace of a former $\sqrt{b}$.¹⁹ In any case, Blažek's (1990, 38) AA $\sqrt{hami}$ (?) "3" based on the comparison between Eg. and Bed. "3" (including also the Guanche numeral "3", cf. below) is not well-founded even if Bed. $\sqrt{mhy}$ and Sbauchi $\sqrt{mKy}$ were related to Eg. $\sqrt{hmt}$ via metathesis. But this – as correctly stated by A. Zaborski (l.c. supra) – is at the moment quite improbable.

Another difficult question is how to evaluate CCh.: Mandara $\sqrt{hkrd}$ "3" [GT]²⁰, where, in principle, we may account for the regular shift of -r- < PCh. $\sqrt{n}$ - and for a prefix $\sqrt{h}$ - (of numerals??), which eventually leads to assuming $\sqrt{hV}$ -kind-. The cognacy of the Mandara numeral seems thus phonologically fully possible, although it might just as well be combined with Brb. $\sqrt{kraḍ}$ "3" [Zvd. 1974, 107, §7; 1975, 47, §7.0] as suggested in JI 1994 I 168A, which, however, would lead to a completely distinct AA root. Furthermore, the dental radical is apparently additional, cf. CCh. $\sqrt{ma-/ga-h-kər}$ < $\sqrt{kən}$ [GT].²¹

Another surprising coincidence is represented by the isogloss of SOm. $\sqrt{makan}$ "3" [Blz. 1990, 38] = $\sqrt{mākan}$ > $\sqrt{makkan}$ (hence $\sqrt{m}$ - by assimilation) [GT]²² ||| WCh.: Dira miyahkən "3" [Krf.] | Sbauchi $\sqrt{makʷan}$ "3" [Blz. 1990, 38] = $\sqrt{mʷah(k)an}$ [GT]²³ || CCh. $\sqrt{ma-kanu}$ "3" [Blz. 1990, 38] = $\sqrt{mʷāhkan}$ (?) [GT].²⁴ As far as I know, H. G. Mukarovsky (1987, 36) was probably the first to point to the connection of the Ch. *m*-(*h*)-*k*-*n*/*r*/*d* forms, Bed. $\sqrt{mhy}$, and SOm. $\sqrt{mkn}$. V. Blažek (1990, 38) unified all the extended varieties of PCh. $\sqrt{kn}$ "3" (prefix $\sqrt{m}$ -, postfix $\sqrt{-d}$) with SOm. $\sqrt{makan}$ under Common AA $\sqrt{(ma)-kanu-(di)}$ "3". Similarly, M. Lamberti (1993, 70) equated the South Omotic stem with the Chadic *m-k-n* forms under a South Afro-Asiatic $\sqrt{mVkkVn}$ - "3", which can only be true if we accept a prefix *m*- in both branches, which is certainly the case with PCh. $\sqrt{kn}$ "3", but we do not yet know anything about SOm. $\sqrt{mākan}$ in this respect, whereas Bed. $\sqrt{mhy}$ can hardly be related as the ultimate root cannot be isolated as $\sqrt{mh}$.

¹⁹ Cf., e.g., the zero reflex in Ma'a we "1" vs. WRift $\sqrt{wak}$ "1", although the case of Ma'a hai "4" vs. ERift $\sqrt{hak}$ "4" speaks against (Zaborski 1987, 343, §1 and §2).

²⁰ Attested in Glavda $\sqrt{hkərda}$ [Rapp] = $\sqrt{hkərda}$ [Wolff], Guduf $\sqrt{həkrɾdà}$ [Smz.] = $\sqrt{h'ək'həɾət}$ [IL] = $\sqrt{hkarde}$ [Wolff] (Mandara group: Wolff 1974, 16).

²¹ Cf. Lamang $\sqrt{hkəná}$ [Wolff] | Dghwede $\sqrt{hkré}$ [Frick] = $\sqrt{hkare}$ [Wolff] = $\sqrt{xókrè}$ [IL], Ngweshe $\sqrt{khwáɾə}$ [IL], met. < $\sqrt{hkwar-}$ [GT], Ghvoko $\sqrt{hkwaro}$ [Wolff] | Kotoko $\sqrt{gəhkər}$ [Mch.] = $\sqrt{gáhkər}$ [Lukas] = $\sqrt{ʔəkàrà}$ [Bouny] (CCh.: Wolff 1974, 16; Ch.: JI 1994 II 326–7).

²² Ari $\sqrt{maakkan}$, $\sqrt{makkán}$, $\sqrt{makkan}$ [Bnd.] = $\sqrt{māken}$ [Bliese 1982], Banna $\sqrt{məkəm}$ [Bnd. 1971, 264] = $\sqrt{m'əkəm}$ [Bnd.], Hamer $\sqrt{makan}$ [Crl. 1942, 262] = $\sqrt{mækkan}$ [Flm.] = $\sqrt{m'akan}$ [Lydall], Dime $\sqrt{mekəm}$ [Bnd. 1971, 263] = $\sqrt{mikkim}$ [Flm.], Karo $\sqrt{makamm}$ [CR 1927, 252], Bako $\sqrt{makken}$ [Da Trento 1941, 206] (SOm.: Bnd. 1971, 263–264; 1994, 160, #86; Zbr. 1983, 388).

²³ Attested in Geji $\sqrt{mekan}$ [Gowers] = $\sqrt{mekán}$ [IL] = $\sqrt{mekən}$ [Smz.] = $\sqrt{mek'n}$ [Krf.], Guruntum $\sqrt{mian}$ [Gowers] = $\sqrt{myan}$ [Smz.], Kir $\sqrt{ɲwe:n}$ [Smz.], Buli $\sqrt{min}$ [Gowers] = $\sqrt{mìyèn}$ [IL] = $\sqrt{mye:n}$ [Smz.], Tule $\sqrt{mànkí}$ [Smz.], Jimi $\sqrt{mwaikan}$ [Gowers], Pelu $\sqrt{dè-mèèkan}$ [Smz.], Zul $\sqrt{myahkan}$ [Smz.], Barang $\sqrt{myakan}$ [Smz.] (Sbauchi data: Smz. 1978, 39, #76).

²⁴ Cf. Ga'anda $\sqrt{mahk'n}$ [Krf.], Hwona $\sqrt{mah'n}$ [Krf.] | Bura and Margi $\sqrt{makər}$ [Wolff], Margi-Gwara $\sqrt{makəno}$ [Wolff], Chibak $\sqrt{makr}$ [IL] = $\sqrt{makər}$ [Wolff] | Bata $\sqrt{moaaakən}$ [Str.] = $\sqrt{mwakən}$ [Mch. 1950, 59], Bachama $\sqrt{mùwa:kún}$ [Skn.], Nzangi $\sqrt{mwəḡkən}$ [Mch. 1950, 59] = $\sqrt{menfén}$ (sic) [Str.], Gudu $\sqrt{makən}$ [IL] | Sukur $\sqrt{má:k'hən}$ [IL] | Paduko $\sqrt{mækra}$ [Mch. 1950, 59; Wolff] | Matakam $\sqrt{màkâr}$ [Schubert], Mofu $\sqrt{máákàr}$ ~ $\sqrt{mahkàr}$ [Brt.], Gisiga-Dogba $\sqrt{maakar}$ [Lks.], Muturwa $\sqrt{makir}$ [Str. 1910, 456] (CCh. data: Wolff 1974, 16).

Three scholars, E. Zyhlarz (1931, 135–136, §3), followed by O. Rössler (1966, 228; 1971, 284, 299) and V. Blažek (1987 MS, 14–15, §3.1; 1990, 38; 1993 MS, 5, §3.1; 1999, 32, §3) supposed a cognacy of Eg. $\sqrt{h}mt$ with the Guanche word for “3” recorded as (Gran Canaria?) *amelotti* (cf. *amierat-marava* “13”) [Niccoloso da Recco], (Tenerife?) *amiat* [Pseudo-Sosa, Marín y Cubas, Berthelot] = *amiet* [Cedeño de Chil] (Guanche: Wölfel 1954, 4 and 14–18; 1965, 616 and 626–630), in which they (except for Rössler) included also Bed. $\sqrt{m}hy$. What the ultimate root of the Guanche forms (known to us only through imperfect late medieval records and fully isolated in the whole Berber language family using a totally different root for “three”) is, has been answered in different ways. E. Zyhlarz (l.c.) assumed $\sqrt{?}mrt \sim \sqrt{?}mlt$ (with -t as part of the root), which he regarded as a correspondence of Eg. $\sqrt{h}m\dot{t}$ (???), but he failed to present any proofs for the hypothetical -3- in the latter root, let alone the enigma as to how the Guanche *Anlaut* -Ø = Eg. -h and where the reflex of the Guanche -r/-l- is in the Bedawye root. Later, however, Zyhlarz (1950, 407) offered a completely different analysis of the Guanche word: **amel-hoq* “der andere Zeiger” = “Mittelfinger”. J. D. Wölfel (1954, 4; 1965, 616), in turn, singled out the stems **amel(o)-*, **amier-* in the Gran Canaria records, but how these could be compatible with Tenerife (?) *amia/et*, he failed to answer definitively: “*Deux explications possibles: ou bien le -t appartient au radical, ou bien le -t de amiat est là à la place de -r- de amierat.*” Wölfel (1954, 6; 1965, 618) was convinced “*que le mot canarien pour « trois » n’a rien à faire ni avec l’égyptien, ni avec le mot bedja. ... ce mot reste inexpliqué et complètement isolé.*” O. Rössler (l.c.) defined the root of the Guanche numeral as $\sqrt{?}mt$ and derived it from an earlier AA $\sqrt{?}mt$, which theoretically might indeed be a possible source for Eg. $\sqrt{h}mt$ may have originated from (due the incompatibility rule of AA $\sqrt{?}t > \text{Eg. } \dot{h}t$, cf. EDE I 326–7). But he failed to answer why the Gran Canaria records have -r- and -l-. V. Blažek (1999 l.c.) has equally failed to explain both the anomaly of the *Anlaut* in Eg. vs. Guanche²⁵ and the traceless -l-/-r- in Egyptian. So his (Blažek 1990, 38) hypothetical AA $\sqrt{h}ami$ (?) “3”, which is supposed to underlie the Egyptian, Guanche, and Bedawye parallels, remains ill-founded.

Eg. $\sqrt{f}d$ (masc. pl. *fd.w*, fem. *fd.t*) “vier” (OK, Wb I 582): no Semitic cognates at all, although there were attempts at forcing it together with the numeral “4” in Semitic²⁶ and Berber.²⁷ Instead, its cognates are to be found in Cushito-Omotc and they are especially wide-

²⁵ He solely relied upon an outline of Guanche vs. Berber consonantal correspondences (where Berber $\sqrt{?}/h- > \text{Guanche } h-, h-, g-, \text{ but also } \emptyset-$ is admitted) by A. Ju. Militarev (1991, 167–168, more precisely §7 on p. 168), who, however, did not present any etymological evidence either for the case of Guanche $\emptyset-$.

²⁶ Several linguists (A. Trombetti 1902, 197, #4; K. Sethe 1916, 21–22; W. F. Albright 1918, 91 [with reservation]; A. Ember 1926, 302, fn. 10; ESS §4.a.13; recently A. B. Dolgopolskij 1973, 231–232; 1983, 125; O. Rössler, followed by W. Schenkel 1990, 56; F. Kammerzell 1994, 170, 180 etc.) tried to demonstrate a relationship of Eg. *fd* (and/or LECu. **afar-*) to Sem. **ʔarbaʔ-* “4”. The phonological anomalies were explained various unlikely ways through unjustified steps in the suggested hypothetic chain of phonological changes, e.g. Eg. *jfd* < **rfd* < **rbḏ* < **rbʕ* or Eg. *jfd* < **jfr* < **jrf* < **ʔrbʕ*! The Eg.-Sem. equation was rejected already by numerous authors: W. F. Albright (1927, 201), E. Zyhlarz (1931, 136, #4), W. Vycichl (1934, 70, fn. 1; 1959, 33), W. A. Ward (1985, 239), V. Blažek (1999, 235–241; 1999, 32–38), H. C. Fleming (2000 MS, 6–7). As pointed out already by Zyhlarz (1931 l.c.), the expected correspondence of Sem. **ʔarbaʔ-* would be Eg. **ʔfh* (or **rfh*) on the analogy of Eg. *sfh* = Sem. **šabʔ-* “7”. Besides, Stolbova (1987, 68) linked Sem. **ʔarbaʔ-* to WCh. **rabu* “2”, while Blažek (1997, 8; 1999, 235–241; 1999, 31–38) compared it to LECu.: Orm. (Wellega) *barʔū* “palm of hand” [Gragg 1982] and possibly NOm. **biraḏ-* (sic) “finger” [Blz.].

²⁷ No evident cognates in Berber. The common Brb. root for “four” can by no means be related to Bed.-Eg.-Ch. **ṣṭ* “four” as proposed by Ju. N. Zavadovskij (1967, 43; 1974, 110; 1975, 50), H. Jungraithmayr (1982, 8; JI 1994 I, 73), cf. e.g. NBrb.: Shilh: *Sus qqoʔ* [Dst. 1938, 237] | Nefusa *okkoʔ* [Lst. 1931, 285] || EBrb.: Ghadames *aqqiz* [Lst.] || SBrb.: Ahaggar *okkoʔ* [Lst.], Ghat *okkoʔ* [Nhl. 1909, 195]. Cp. WCh. **kučA* “nine” [Stl. 1987, 208, #590]. Comparing

spread in Chadic, cf. Bed. *faḍig “four” [GT],²⁸ supposed to derive from an older **fardig(a) [Blz. 1999, 33]²⁹ ||| NOm. *Peč- [from an older **feṭ-?] “four” [GT]³⁰ ||| Ch. *f^waḍV [GT].³¹ The common AA root here can only be *√ft.

In Lowland East Cushitic and in two Chadic groups, the presumably same common root appears to be *√fr, cf. LECu. *afr- [Black] = *afar-/*afur- [GT]³² ||| WCh.: Angas-Sura *fē₁r [Stl. 1977, 154] = *fir [Stl. 1987, 160] = *f^é₂r [GT]³³ || ECh.: P₁ay (PNancere) *p[o]ri [GT].³⁴

Berber “4” to Eg. fd was rightly rejected already by M. G. Mercier (1933, 309) and recently by V. Blažek (l.c.). V. Brugnatelli (1982, 76), followed by V. Blažek (1997, 9; 1999, 235–241, #4; 1999, 32–38, #4) compared SBrb.: Ahaggar ê-fed, pl. ê-fd-en “quantité innombrable (nombre qui dépasse tout ce qu’on peut compter)” [Fcd. 1951–2, 305, cf. Prs. 1974, 407], ETawllemmet ə-fəḍ “se multiplier”, e-fəḍ, pl. e-fəḍ-ən “1. million, 2. nombre immense” [PAM 1998, 59]. For the semantic shift Blažek quoted Khoe thiyà “four” vs. thiyà “many”. Blažek (l.c.) suggested alternatively NBrb.: Iznasen, Ait Ammart, Iboqqoyen, Ait Tuzin ta-fḍen-t “orteil” [Rns. 1932, 298] | Qabyle ti-fden-t “orteil” [Dlt. 1982, 191] = (dial.) ti-fḍn-in “orteils, doigts de pied” [Zvd.] || EBrb.: Ghadames ta-fadən-t “toe” [Lanfry], which is semantically dubious.

²⁸ Attested as Bed. faḍdeg [Kremer] = fardik [Krockow] = ferdik [Lucas] = faḍig [Rn. 1894, 10; 1895, 76] = fāḍig [Rn. 1890, 7; Roper 1928, 179] = faḍig [Hds.], Bed. of Beni Amer farig [Rn.] (Bed. records: Dlg. 1966, 60; Blz. 1993 MS, 6–7, #4.1; 1999, 235ff.; 1999, 32ff.).

²⁹ There are controversial theories on the etymological analysis of Bed. “4”. A. Trombetti (1902, 197) explained it from PCu. *afar-dig. E. Zyhlarz (1932–1933, 167): Bed. *faḍi-g extended by “ein Numeral zusammenfassendes Suffix *-ga”, cf. Bed. -ga “a dual and plural ending” [Roper 1928, 183]. I. M. D’jakonov (1965, 47), did not exclude even an archetype *šadig (sic). Acc. to W. Vycichl (1960, 255, 262; 1978, 75), Eg. fd and Bed. “4” are not at all cognates (Vycichl explained Bed. -ḍ- from an ancient *ḡ or *g!). V. Blažek (1993 MS, 6–7, #4.1; 1997, 5; 1999, 235–241, #; 1999, 32–38, #4) supposed PBed. *fa[rd]ig, derived from a compound *fari-da-g(a), where Bed. -g would be identical with Bed. -ga “a dual and plural ending” [Roper 1928, 183] and the prefix *g- of numerals (presumed already by V. Ja. Porhomovskij in PKotoko *gVḍV “four” < *g-fVḍV?). Ch. Ehret (1995, #93), in turn, derived Bed. -ḍ- from PAA *-dl- [i.e. *-ḡ-].

³⁰ Attested in Janjero hēč-a [h- < *p^h-] “quarter (fraction)” [Flm.] | Mocha pēč-o [č < *t possible] “quarter” [Lsl. 1959, 44] = βēč-o “quarter, fourth” [Flm.] | Mao (sic) beč-e ~ meč-e [-ts’-] “four” [Flm.], Hozo beč-í [-ts-] “four”, Sezo beš-é ~ bèš-é “four” (Mao: Sbr.-Wdk. 1994, 13; NOm.: Flm. 2000 MS, 6–7).

³¹ The underlying root for “4” has been exceptionally well preserved nearly in all Chadic languages. This apparent uniformity cannot be found in the case of other Chadic numerals. For a very detailed presentation and analysis of the reflexes in the Chadic daughter languages see EDE II 600–602. D. Ibrizomow (1988, 68–69) supposed an old quadrinary counting system in Chadic. The PCh. etymon has been set up in various forms: *p^hwVḍV [IS 1966, 21] = *f-ḍ- [NM 1966, 235, #38] = *f^waḍ [Nwm. 1977, 26] = *f^wVḍV/*Vf^wVḍV [Dlg. 1983, 125] = *p-ḍ [JS 1981, 113; JI 1994 I, 73] = *(m)-p-ḍ-(w/y) [JS 1981, 113A] = *fid-oḍ- (sic) [Stl. 1996, 29]. O. V. Stolbova (1987, 160, §136) has WCh. *firadu based on Bole pórdo [Koelle] = p’ordo (sic) [Stl.], attested elsewhere as poḍḍo [Nwm., Lks.] = podo [Grb.] = poḍḍau ~ poḍḍo [Schuh 1982] = foḍo [IS, NM, Haruna] = fòḍḍó [Schuh 1984] = fḍḍḍo [IL]. The PCh. etymon suggested by P. Newman (1977 l.c.) and A. Dolgopolsky (1983, l.c.) seems most convincing.

³² For the LECu. data see Rn. 1886, 845; PB 1963, 469; Black 1974, 104; Heine 1976, 215; Dlg. 1973, 231; Zbr. 1987, 328–340. The etymological connection of LECu. *afar- “4” to the Chado-Egyptian isogloss is debatable. E. Cerulli (1938 III, 153) traced back LECu. *afr to “common Cushitic” (i.e., Cu.-Om.) *aft. A. B. Dolgopolsky (1973, 231; 1983, 125; 1988, 629, #6), in turn, with special regard to LECu. met. var. *ʔarf- (above), connected LECu. *ʔafar- to Sem. *ʔarbaʔ- “4”, which he explained as a met. of an earlier *√brf. Dolgopolsky’s theory was queried by F. A. Dombrowski & B. W. W. Dombrowski (1991, 341). At the same time, Dolgopolsky (1983, 125) compared Sem.-LECu. “4” also to Bed.-Eg.-Ch. “4”, although the LECu.-Sem. comparison excludes an equation of LECu. “4” with the Eg.-Ch. root. For the time being, most probable seems a common origin with LECu. *afar- from PAA *√fr.

³³ For the Angas-Sura data see Grb. 1958, 300, #1; Jng. 1965, 166, 168, 180–181; Stl. 1972, 182; Hfm. 1975 MS, 18, #35; GT 2004, 105. Contrary to O. V. Stolbova (1996, 29), who maintained AS *-r < Ch. *CVḍVC (while PCh. *CVḍ- → AS *CVt), I see no justification for explaining AS *-r = P₁ay *-r from common Ch. *-ḍ.

³⁴ Cf. Nancere peri [Hfm.], Lele poring [Hfm.] = pōring [WP 1982, 77], Dormo porin [Hfm.], Gabri porin [AF] = pari [Dcr.], Chire porbu [Hfm.], Kabalay pori [Hfm.] (Lay gr.: Hfm. 1972, 204).

These data, according to our present knowledge, can by no means be explained from AA $\sqrt{ft}$.³⁵

Eg. $\sqrt{dj}$ (masc. dj.w, fem. dj.t) “fünf” (OK–, WB V 420) is in fact not a word root at all as it has for a long time been unequivocally regarded as a nisbe of the extinct Eg. word $\sqrt{d}$ or $\sqrt{jd}$ “hand” (Osing: $\sqrt{d}iy$ .aw “die zu einer Hand Gehörigen”), akin to Sem. $\sqrt{yad}$ - “hand”.³⁶ A similar semantic shift is attested in SCu.: Dahalo $\sqrt{d}aw\ddot{a}tte$ “5”, act. $\sqrt{d}a\ddot{s}a$ - $\sqrt{w}atte$, lit. “one hand”, cf. WRift-Dahalo $\sqrt{d}aba$ “hand” (SCu.: Ehret 1980, 162, §ii.a.3). But for phonological and etymological reasons, H. G. Mukarovsky (1987, 45) and V. Blažek (1990, 30; 1991, 210) are presumably wrong in assuming a direct cognacy between the Dahalo and Ancient Egyptian numerals for “5”.

Eg. $\sqrt{srs}$ ³⁷ > $\sqrt{sjs}$ (occurring as masc. pl. sjs.w, fem. sjs.t) “sechs” (OK–, Wb IV 40) is, according to *communis opinio*,³⁸ in the light of a few other instances of rhotacism of $\sqrt{d}$ > Eg. $\sqrt{r}$ ³⁹ (attested

³⁵ The underlying PAA form has been heavily debated. Ju. N. Zavadovskij (1974, 110; 1975, 50): PAA $\sqrt{fd}$ (incorrect, since AA plain $\sqrt{d}$ > Bed. $\sqrt{d}$ ~ $\sqrt{t}$ = Ch. $\sqrt{d}$). I. M. D’jakonov (1986, 61; 1988, 67): PAA $\sqrt{fVdC}/\sqrt{fVrC}$ (where C denotes an unclear weak consonant in final position). V. Blažek (1987 MS, #4.2, 1990, 29; 1993 MS, 6–7, #4.1; 1999, 235–241, #; 1999, 32–38, #4) suggested PAA $\sqrt{fira-du}/\sqrt{fari-du}/\sqrt{faru-di}$. He explained Eg. & Om. $\sqrt{d}$ - vs. Bed. & Ch. $\sqrt{d}$ - from a cluster $\sqrt{rd}$ -, i.e. PEg. $\sqrt{fida[r]wa.t}$ < $\sqrt{faridwa.t}$ (?) ||| PBed. $\sqrt{faridaga}$ > $\sqrt{fa[r]dig}$, still preserved in some old records as fardik [Krockow] = ferdik [Lucas], quoted after Almkvist (1883–1887) ||| PCh. $\sqrt{faridu}/\sqrt{farudi}$ (cf. Stolbova 1987, 160, #136: WCh. $\sqrt{firadu}$). This reasoning might be valid at least in Bed., cf. Bed. $\sqrt{f}u\ddot{d}a$ ~ $\sqrt{f}urda$ “Molo, Ankerplatz” < Ar. $\sqrt{furd-at}$ “anchorage, sea-port” [Rn. 1895, 82]. In Eg. too (Eg. $\sqrt{fd}$ < $\sqrt{f}d$ = $\sqrt{frd}$ would be plausible). The case of Chadic is more problematic, where we would need to collect sufficient and convincing evidence for common Chadic $\sqrt{d}$ - = Angas-Sura and PLayer $\sqrt{r}$ < AA $\sqrt{rd}$ -. F. Kammerzell (1994, 22–26; 1994, 180), in turn, proposed a development of Eg. $\sqrt{fd}$ = $\sqrt{fitt\acute{a}}$ < $\sqrt{firt\acute{a}}$ < $\sqrt{fird\acute{a}}$ to set up PAA $\sqrt{PrD}$, var. $\sqrt{PrG}$ “four” (though $\sqrt{G}$ is not justified by the reflexes), based on Eg., Bed., LECu., NOm., Ch. “four” and Sem. $\sqrt{arba\acute{s}}$ (!).

³⁶ Müller 1909, 191, fn. 2; Sethe 1916, 22, §5; 1927, 60–61; NBÄ 313; Brunner-Traut in LÄ II 582; Loprieno in LÄ V 1213, n. 26 and in VI 1308. Ultimately, the same idea was accepted by L. Homburger (1928, 336–337), albeit in a chaotic form (misquoting the Eg. word as d.t pace Lexa 1922, 176, a rudimentary mistake!) and along with a number of dubious African parallels.

³⁷ The older Eg. root $\sqrt{srs}$ was still preserved by srs ~ sjs “Art Leinen: Sechsgewebe” (MK, Wb IV 40, 8 and 200, 17).

³⁸ For the Eg.-AA etymology see Erman 1892, 117 and 127, fn. 1; Ember 1911, 89; 1912, 90, fn. 4; 1914, 303; Sethe 1916, 19–20; Albright 1918, 90, fn. 2 and 91; 1926, 188–189; Farina 1926, 21; Behnk 1927, 82, #16; ESS §4.i; Zyhlarz 1931, 134, 137; Vycichl 1934, 42, 77; 1953, 42; 1957, 21; 1958, 378; Greenberg 1955, 60; 1963, 62; D’jakonov 1965, 47 (with doubts about Eg. srs); Rössler 1966, 227; Zavadovskij 1974, 108, #9; 1975, 48; Hodge 1975, 15 and 24, #161; Loprieno 1986, 1308 and 1316, n. 25–26; Blažek 1987 MS, 31; 1999, 39–42, §6; Bomhard 1988, 446–447; OS 1988, 79, #64 (excluding Eg. srs); Dombrowski-Dombrowski 1991, 342; Lipiński 1997, 287, §35.11; Schenkel 1997, 114, Abb. 4, n. 4. Apparently ignoring the fact of an occasional development of Eg. $\sqrt{r}$ < $\sqrt{d}$ (below), V. Blažek (1990, 39–40) surprisingly denied the cognacy of Egyptian and Semitic “6” and, instead, he preferred the phonologically naturally more comfortable equation of Eg. $\sqrt{srs}$ with Sem. $\sqrt{t}al\acute{a}t$ - “3”, which he even extended to ECU. $\sqrt{s}azh$ -, $\sqrt{s}izh$ -, $\sqrt{s}azih$ - “3” explaining its $\sqrt{z}$ - with a shift of $\sqrt{z}$ - < $\sqrt{ls}$ - < $\sqrt{l\acute{c}}$ -, which is attested nowhere.

³⁹ Cf. (1) Eg. $\sqrt{rj.t}$ “Farbe zum Schreiben und Zeichnen, Tinte” (MK, Wb II 399, 9–12) equated by Th. O. Lambdin (1953, 149) and O. Rössler (1966, 227) with NWSem. $\sqrt{dy}$: OT Hbr. (hapax) $\sqrt{d}ay\ddot{o}$, Aram. $\sqrt{d}ay\ddot{u}t\acute{a}$, Syr. $\sqrt{d}ay\ddot{o}t\acute{a}$, $\sqrt{d}ay\ddot{u}t\acute{a}$ “ink”, which is suggested to be an early loan from MEg. But even so, the change $\sqrt{r}$ ~ $\sqrt{d}$ is highly remarkable. Contrary to Rössler, Lambdin explained OT Hbr. $\sqrt{d}ay\ddot{o}$ as a graphemic error for $\sqrt{r}ay\ddot{o}$, which contradicts the rest of the Canaanite evidence. (2) Eg. $\sqrt{hrd}$ “child” (PT, Wb III 396–398) equated by O. Rössler (1971, 296, 306) with Sem.: Geez $\sqrt{h}ad\acute{a}t$ “a small amount, little, a little while, few in number ...” [Lsl.], cf. Geez $\sqrt{h}t\acute{t}$ “to be small” etc. (Sem.: Lsl. 1987, 269). (3) Eg. $\sqrt{srq}$ “öffnen” (PT, Wb IV 201–203) compared by O. Rössler (1966, 227) with Ar. $\sqrt{s}d\acute{q}$ “weit öffnen” [Rsl.] = “avoir les coins de la bouche très-larges (se dit d’un homme dont la bouche est très-large quand il l’ouvre)” [BK I 1205]. Ignoring these facts, V. Blažek (1990, 39–40) denied the cognacy of Eg. and Sem. “6” and in-

also in the Kefoid reflexes and a number of Chadic daughter languages quoted below), evidently identical with Sem. *šidš- “6” [Sethe] = *šid̥t- [Djk., Lipiński]⁴⁰ ||| Brb. *√sds > *sadis (south) vs. *sddís (north) “6” [Zhl.] = *sids [Djk.] = *saḏīs ~ *sūḏus with *-ḏ- < *-dd- [Blz. pace Prasse] = *sḏīs [Lipiński]. Among the derivatives of Common Afro-Asiatic “6”, the above listed forms, including Egyptian, undoubtedly represent reflexes of a NAA *√sds, whereas the related Southern Afro-Asiatic daughter languages display the original biconsonantal *√sd, which apparently had a rhotacistic variety *√sr, cf. NOm. (hardly borrowed from Ethio-Sem.): Sheko šir-itt-o “6” [Lmb.] | PKefoid (PGonga) *šir-itt- “6” [GT]⁴¹ ||| WCh. *sidu “6” [Stl. 1987, 176, #288]: Hausa *sidda [Grb., Djk.] > šidà, Sokoto dial. šiddà [Abr. 1962, 809],⁴² Gwandara šidà [Mts. 1972, 108] | Ngizim sedu [Koelle] = zèdù [Schuh 1981, 179] = zèdù [Krf.], Bade èzdù [Krf.] || CCh.: Gidar sèrrè [Str. 1910, 457] = tìrre (θ-) ~ šire [Mch.] | PMusgu *šār- ~ *šir- [GT]⁴³ || ECh.: Kwang-Modgel sidee [Lks. 1937, 96].⁴⁴ Especially noteworthy from the standpoint of SAA *√sr, is the suggestion by V. Blažek (1987 MS, 31) about a possible ancient areal parallel like PDravidian *caṛu “6” [DED §2051].

Eg. √sfh (masc. sfh.w, fem. sfh.t) “sieben” (OK, Wb IV 115) is identical with Sem. *šib̥- [Conti l.c.] = *šáb̥- “7” [Dlg. 1986, 79, #16], as has long been commonly accepted.⁴⁵ The

stead, he preferred to equate Eg. *srs with Sem. *talāt- “3”, which he even extended to ECu. *šazh-, *šizh-, *sazih- “3” [Sasse 1976, 138] explaining its *-z- with a shift of *-z- < *-ls- < *-lč- (attested nowhere).

⁴⁰ Most reflexes in the Semitic daughter languages reflect the third radical as *-š, only Old South Arabian has -ṭ (cf. SD 175: Sabaic s,ṭt), which, following Garbini (1972), Loprieno (1986, 1316, n. 25–26) considered as a result of a dissimilation. The Ugaritic evidence, in turn, speaks for √ṭdṭ (DUL 900), which G. del Olmo Lete and J. Sanmartín (l.c.) explained from *√šdṭ via assimilation. For the Semitic derivatives with the assimilation of the 2nd and 3rd radicals see Brockelmann 1907, 170–171, §60.a; Moscati et al. 1964, 119, §14.8; Grande 1972, 107. Attractive is V. Blažek’s (1990, 30; 1999, 41) approach towards the partially reduplicative root structure of the Sem.-Eg.-Brb. isogloss: he supposed in PSem. an older *šid-šid- “3+3” or *šid-ṭin- “3×2” and so assumed a hypothetical PSem. **šid- (with an earlier *-ḏ- “3”, which he identified with the isogloss of Akk. šizum, later šizû “Drittel-Elle” [AHW 1254] ||| ECu. *šazh-, *šizh-, *sazih- “3” [Sasse 1976, 138]. The problem is, however, that the Afro-Asiatic evidence does not in any way support the reconstruction of Sem. **šidš- à la Blažek, whose 2nd redical must certainly have been *-d-.

⁴¹ Attested in Kafa šir-itt-ō [Crl. 1951, 307] = širr-it-o [Bnd. 1971, 259] = širr-it-o [Lmb.], Mocha šir-itt-o [Lsl. 1959, 52] = šir-itt-o [Bnd. 1971, 260], Shinasha sir-t-a [Schuver in Grottanelli 1940, 103] = šir-t-a [Grottanelli 1940, 103; 1941, 266] = (Bworo) šir-itt-ē [Brauner 1950, 70; Bnd. 1971, 259] = širrātā [Lmb.], Anfillo šir-t-o [Grottanelli 1940, 103; Bnd. 1971, 258; so also Lmb.] (Kefoid data: PB 1963, 468; Zbr. 1987, 384; Lmb. 1993, 379). Following E. Cerulli (1951, 309, §xxiv.1), M. Lamberti (1993, 379) and V. Blažek (1987 MS, 31; 1999, 40) too explained the Kefoid forms as loans from Ethio-Semitic *√sds, but among its reflexes he referred to (Leslau 1963, 137) there is not one single with -r- < *-d-, let alone that the Northern Omotic reflexes do not at all reflect the semi-reduplicative root *√sds. The way W. Leslau (1959, 52) argued for a borrowing (“the Semitic Ethiopic sēddāst was taken over in a modified form”) did not answer any of the phonological questions. It remains thus but to accept the genetically inherited nature of Kefoid “6”.

⁴² Earlier, when the rest of the Chadic data was unknown to the comparative linguists, the Hausa word was explained as an Arabic loan (e.g., Greenberg 1945, 94 with the understandable note “*derivation doubtful*”), but the wide range of Chadic cognates (impossible to be regarded as coming from Arabic) has made it evident that the Chadic numeral is genetically inherited from the Common Afro-Asiatic lexical stock.

⁴³ Attested as Musgu saara (sic, s-, probably for sl-) [Roeder] = šáára (s-) [Krause] = taara (sic, t-, probably for tl-) [Overweg] = tará (sic, t-, probably for tl-) [Rohlf], Mbara šírá (t-) [TSL 1986, 270], Kad’a šíré (sl-) [Brt.-Jng. 1993, 133], Munjuk šaara [Trn. 1991, 117] = šààrà [Brt.-Jng. 1993, 133] (Musgu group data: Lukas 1941, 76).

⁴⁴ Strangely, H. G. Mukarovsky (1987, 38), equated the Chadic numeral (instead of the Sem.-Eg.-Brb. isogloss < AA *√sds) with the ECu. numeral for “3”, which he reconstructed as *√sdh, although H.-J. Sasse (1976, 138–139, 135) assumed ECu. *šazih-/šVzh- “3”.

⁴⁵ See Reinisch 1874, XII; Erman 1892, 118; Ember 1911, 91; 1912, 90, fn. 4; 1926, 308, #2; Sethe 1916, 20, §7; ESS §9.b.2; Albright 1918, 91; 1923, 68, fn. 1; 1926, 189; 1927, 199–201; Lang 1923–1924, 552; Farina 1924, 316; 1926, 14;

Amarna cuneiform evidence (šapha) and Coptic, cf., e.g., (S) cas=f, corroborate the vocalization *safh.aw (m) vs. *safh.at (f). The *Lautverschiebung* of Eg. *-ʕ > -h was explained by K. Sethe (1916, 20, §7), F. Behnk (1927, 82), and A. Loprieno (1986, 1316, n. 27) – correctly – on the basis of the analogy of Eg. wsh vs. Sem. *wšʕ “wide”, although they did not realize the reason for this.⁴⁶ In fact, here we have – instead of an the influence of the *Anlaut* on the following numeral (Eg. ḥmn, cf. Blažek 1999, 43) – rather a *Lautverschiebung* generated by the incompatibility of s + ʕ in the same Eg. root (EDE I 326). As for the anomalous Eg. -f-, W. Vycichl (1958, 398) postulated a combinatory change due to the cluster -fh- < *-fʕ- < *-pʕ- < *-bʕ- (?).⁴⁷ Whether the Berber numeral for “7” is also related as it was suggested by a number of scholars,⁴⁸ is, presumably, hardly a question itself, but the disturbingly anomalous loss of *-b- even in the East Berber and Tuareg reflexes has to be explained,⁴⁹ cf. NBrb.: Tazerwalt ssa (m), ssa-t (f) [Prasse] || EBrb.: Ghadames sā (m), sā-t (f) [Lanfry 1973, 327, #1410] || SBrb.: Ahaggar e-ssa (m), e-ssāh-et (f) [Fcd. 1951–2, 1798] = ə-ssa (m), ə-ssāh-ət (f) etc. [Prasse 1969, 89, #620], Ghat sah-et (f) [Nhl. 1909, 66, 205]. The underlying PBrb. root is thus debatable.⁵⁰

The attestation of this root for “7” in Southern Afro-Asiatic is sporadic and not without uncertainty, cf. LECu.: Elmolo s’ápa “7” [Heine 1980, 209] = sapa [Lmb.]⁵¹ || NOm. (borrowed from Ethio-Sem.): Shoko šabāto “7” [Lmb.] | Kefoid *šab-att- “7” [GT]⁵² || SOM.: Hamar soʔb-a [Flm.], Karo sopb-o [Flm.] (SOM.: Bnd. 1994, 157)⁵³ || CCh.: PMafa-Mada *čib- “7” [GT];⁵⁴ Mofu čibe (tsch-) [Str. 1922–3, 122], Gwendele cíba [Colombel], Hurzo cíba [Colombel] = číḃà [Rsg. 1978, 322, #622].

Behnk 1927, 82; Zyhlarz 1931, 137, §7; Lexa 1938, 223; Rössler 1952, 142, #66; 1966, 228; Vycichl 1958, 378; Illič-Svityč 1964, 7, #22; D’jakonov 1965, 47; Zavadovskij 1974, 109, #10; 1975, 49; Hodge 1976, 15, #162; Conti 1978, 28, fn. 2; Loprieno 1986, 1308; 1994, 120; 1995, 32; Blažek 1990, 31; Lipiński 1997, 287, §35.12.

⁴⁶ W. F. Albright (1918, 91) assumed the chain of phonetic shifts: Eg. sfh < *sfh < *sfʕ < *sbʕ. A. Ember (1926, 308, fn. 4–6) was, in turn, inclined to explain the change by “*partial assimilation*” of ʕ to f and that of b to s, for which he, however, failed to provide any parallel evidence. A. Loprieno (1994, 120) arbitrarily extracted the Egypto-Semitic parallel from a common *ʕspʕ, but he failed to demonstrate the evidence for its *-p- and *-ʕ-, which is attested nowhere.

⁴⁷ Where V. Blažek (l.c.) attributed the presence of -s- also some importance with a hint on Eg. ḥsb (PT 448c^w), an occasional variety of standard ḥsf “abwehren” (OK–, AÄG 51, §114).

⁴⁸ Zyhlarz 1931, 137, §7; Rössler 1952, 142, #66; 1966, 228; D’jakonov 1965, 47; Vycichl 1966, 269; 1974, 63; 1992, 385; Zavadovskij 1967, 43; 1974, 109, #10; 1975, 49; Blažek 1990, 31; Lipiński 1997, 287, §35.12

⁴⁹ There is a small number of Ghadames and Augila words, where PBrb. *b is not reflected as expected (namely, as ḃ), cf. Kossmann 1999, 79–80, §3.11; also Blažek 1999, 43 (discussing the case of the word for “heart”).

⁵⁰ PBrb. *ʕswḥ > Tuareg *saḥ [Zhl.] = *assaʔu < **asbaʔu [Rsl. 1952 l.c.] = *saʕ (sic, -ʕ) < *saḥʕ < **sabʕ (?) [Djk.] = *ʕsʔʔ [Rsl. 1966 l.c.] = *ʕh,sh₂ [Prasse l.c.] = *sa [Zvd., Lpn.] = *sāh [Blz. 1990 l.c.]. In the view of Ju. N. Zavadovskij (1967, 43), the “берберская форма представляется апокопированной”. M. Kossmann (1999, 76, §3.7, #106), in addition, who did not even list Brb. “7” among the instances of *b, conceived the -h- appearing in Tuareg fem. forms (Ahaggar e-ssāh-et, Ghat sah-et) as intrusive in certain fem. numerals whose stem ends in long vowel.

⁵¹ B. Heine (1973, 282), however, recorded Elmolo típa? “sieben”, which continues ECU. *tVzb-.

⁵² Attested as Kafa šabāttō (cf. šābo “70”) [Crl. 1951, 307] = šabatto [Lmb.], Mocha šabāto (cf. šāb/bo “70”) [Lsl. 1959, 49], Shinasha sawáte [Schuver] = šawata [Grottanelli 1940, 103; 1941, 266] = šāwatta [PB] = šawāta [Lmb.], Bworo šawátē [Brauner 1950, 70; Bnd. 1971, 259], Anfillo šabattó [Grottanelli 1940, 103; Bnd. 1971, 258] (Kefoid data: PB 1963, 468, 478; Zbr. 1983, 384; Lmb. 1993, 385). Generally in Ethio-Semitic and Omotic studies (e.g., Cerulli 1951, 309, §xxiv.1; Leslau 1959, 49; Lamberti 1993, 385), the Kefoid numeral is supposed to have been borrowed from Ethio-Semitic, cf. Amh. sābatt. But what explains the anomalous *Anlaut* in a loan?

⁵³ L. Bender (l.c.) suspected (with a question-mark) in these Southern Omotic forms borrowing from Arabic.

⁵⁴ Some of the Mafa-Mada group forms were first compared with Sem. *šabʕ- by V. Blažek (1990, 31, 38), who, however, included in this equation also his ECh. *caḃu “3” (although the evidence suggests rather *süb-, cf. JI 1994 II 327), for which cf. rather LECu.: Elmolo sépe “3” [Heine 1980, 209].

It remains for later research to clarify whether the isogloss of ECu. *tVzb- “7” [Sasse 1976, 139]⁵⁵ ||| P.Om. *tabz- “7” [GT]⁵⁶ is eventually also related with a prefix t- (?) and a secondary voicing of *-s- in the cluster with *-b-, i.e., **tasb(ʃ)- > *tazb- (hence P.Om. *tabz- via metathesis < **tazb-?). The lack of any trace *-ʃ is, in any case, a not too supportive a circumstance.

Eg. ḥmn (masc. ḥmn.w, fem. ḥmn.t) “acht” (OK-, WB III 282) is to be vocalized on the basis of its Amarna cuneiform reflex ḥaman (Albright 1926, 188–189) and the Coptic evidence, e.g., (S) smoun as *ḥāmān.[ǎ]w, which almost perfectly coincides with Sem. *tāmāniy- “8”.⁵⁷ This comparison has been commonly accepted⁵⁸ in spite of the disturbingly anomalous *Anlaut*. After several vain attempts at resolving this mystery,⁵⁹ the most natural reason is easy to be found, namely the influence of the *Auslaut* of the preceding numeral (√sfh), a quite natural factor leading to phonologically irregular numerals,⁶⁰ i.e., analogy, which V. Blažek (1999, 45, §8) in this case avoided even to mention as an alternative. Whether Brb. *tam “8” [Djk.] = *tām/*hittām “8” [Prasse] belongs to the firmly established triconsonantal Sem.-Eg. *tmn, is heavily debated as both the lack of the C₃ and the *Anlaut* are anomalous.⁶¹ Turning against the conventionally accepted equation of the Egyptian, Semitic, and Berber roots mentioned above, step by step, V. Blažek (1991, 210; 1993 MS, 6, §3.5; 1999, 45, §8) excluded every single of the

⁵⁵ The East Cushitic word was borrowed into PBaz *tizzaba → PSNilotic *tisap → NMa’a sapa (Heine & Rottland & Voßen 1979, 85).

⁵⁶ Attested in N.Om.: Basketo tabz-ā [Crl. 1938 III, 108], Doko tabs-ā [CR 1927, 248], Dollo tābez-ā [CR 1927, 250] | Dizoid *tubs- [GT]: Dizi tūs-ú [Allan 1976, 381] = tus-u [Toselli 1938, 13] < *tuss- < *tubs- [GT]. Sheko tubs-u [CR 1925; Bnd. 1971, 262] || S.Om.: Hamer tobb-a [Crl. 1942, 262], Karo tsōb-ā (sic, ts-) [CR 1927, 252], Ari tabz-a [Bnd. 1971, 263] = tabž-á [Bnd.], Galila (Ari) tabž-á [Flm.], Bako tabz-e [Da Trento 1941, 206], Dime toss-um [Bnd.] = tuss-o [Flm.] < *tuss- < *tubs- [GT] (S.Om. data: Bnd. 1994, 157).

⁵⁷ In a surprising manner, A. Loprieno (1986, 1308, n. 28), also here, misinterpreted Ar. ṭ- as a reflex of Sem. *š- (as in the case of Ar. √sdṭ < Sem. *šdš) and misleadingly presented it as a *communis opinio*, which is naturally not at all the case (cf., e.g., Moscati et al. 1964, 43, §8.59).

⁵⁸ Hommel 1883, 96, #11; Erman 1892, 116; Ember 1911, 91; ESS §10.a.32, §11.a.46; Albright 1918, 92; 1926, 188–189; 1927, 200–201; Farina 1924, 324; 1926, 20; Behnk 1928, 82, #28; Zyhlarz 1931, 137–138; Bravmann 1933, 147; Lexa 1938, 224; Rössler 1952, 146, #73; 1966, 228; Vycichl 1959, 33; 1966, 269; 1974, 63; 1992, 385; D’jakonov 1965, 47; Zavadovskij 1967, 43; 1974, 109, #11; 1975, 47; Hodge 1976, 15, #163; Loprieno 1986, 1308, cf. fn. 28; Belova 1989, 14; Blažek 1990, 31; Schenkel 1991, 116; Dombrowski-Dombrowski 1991, 347.

⁵⁹ So, for instance, K. Sethe (1916, 20, §8) correctly stated that Eg. ḥ vs. Sem. *ṭ are “sonst nicht belegt”, but because of m + n, such a shift may undoubtedly have taken place, and, in addition “*vergegnwärtigt man sich*” assuming that Eg. ḥ > Cpt. S worked “*ebenso wie*” Sem. *ṭ > Hbr. š, which, however, is an error and does not prove a anything about Eg. ḥ- vs. Sem. *ṭ-. Sethe concluded that “*So wird man auf die Vermutung geführt, daß in diesem š nahestehender Laut das Ursprüngliche gewesen sei, und daß das äg. ḥ nur eine unvollkommene Wiedergabe desselben darstelle*”. W. F. Albright (1918, 92 and fn. 2), in turn, assumed a chain of shifts (Eg. ḥmn < *šmn < *tmn), where, in his view, “š for θ arises by dissimilation from the dental n”, although, *pro primo*, OK ḥ- has not been known as a phoneme issuing from older *š, and, *pro secundo*, the expected Egyptian reflex of Sem. *√tmn is not at all *šmn but *smn! Of course, a shift of Eg. ḥ- < *-s- is otherwise unknown. Later Albright (1927, 200–201) worked with the *Lautverschiebung* of Eg. ḥmn < *fmn < *tmn, which he equally failed to justify.

⁶⁰ Cf., e.g., Old Church Slavonic devęty “9” < IE *newn̥ under the influence of *desęty “10”.

⁶¹ The Sem.-Eg.-Brb. comparison was supported by O. Rössler (1952, 146, #73; 1966, 228); W. Vycichl (1959, 33; 1966, 269; 1974, 63; 1992, 385); I. M. D’jakonov (1965, 47); Ju. N. Zavadovskij (1967, 43; 1974, 109, #11; 1975, 47). Rössler (1952, 146, #73) assumed PLibyan *tamnu(m), *tanatu (f), hence *tam̥ (m), *tam̥t and regarded *ṭ- as regular (!) for Sem. *ṭ-. Later, in turn, Rössler (1966, 228) considered the *Anlaut* of the Berber numeral “*mit t für lautgesetzliches s*” as being due to assimilation to “9” (Brb. *ṭzḥ). The change of m < *mn was explained by D’jakonov (1965, 47) via assimilation < *tamn. Similarly, for Zavadovskij (1967, 43) too, the Berber “*форма кажется апокопированной*” from the triconsonantal PAA root.

three *comparanda*. For him, Brb. *t- vs. Sem. *t- was an otherwise unattested match, which is, however, not entirely true.⁶² Therefore, he proposed a completely new etymology for Berber “8”, namely SCu.: PRift *tam- “3” [Ehret],⁶³ where he assumed a pattern of (5 +) 3 = 8 to have worked just as in the case of ECu. *ša/izh- “3” vs. *ša/izzet- “8”. This suggestion seems indeed attractive. But Blažek also found (pace Holmer 1966, 35) it evident that Eg. ḥmn is “*deriving quite naturally from*” Eg. ḥmt “3” (!) in the same way, although he did not explain this derivation, e.g., how did the -t of “3” disappear in “8”, or, what was the function of -n of the latter numeral. Thirdly, in Sem. *tāmāniy- “8”, instead of a genetically inherited root *√tmn, he saw an inner Semitic innovation from the contraction of a hypothetical compound **tāniy-mā/**tāniy-mā “the second one no”, or alternatively from **tāniy-/tāniy-min-(šašar-) “the second from (ten)”. All this fails, however, due to the fact that the same PAA biconsonantal root *√čm for “8” appears also in NOm.: PKefoid (Gonga) *šim-itt- “8” [GT].⁶⁴ A borrowing from Ethio-Semitic⁶⁵ is hardly the case with the Kefoid numeral (isolated within Omotic) for several reasons.⁶⁶ It is here to be remarked that the Egyptian, Semitic, and Berber numerals “8” were compared by W. Vychichl (1959, 33) also with Bed. asemháy ~ asumháy “acht” [Rn. 1895, 31] = asimhéi [Roper 1928, 155] in spite of its analysis as a compound commonly accepted since L. Reinisch (1894, 7).⁶⁷

Eg. √psd “nine (9)” (OK, Wb I 558) is a word with a very difficult etymology,⁶⁸ traditionally identified with Semitic *tiš(a)ḥ- “9” [GT] (Semitic data: Moscati et al. 1964,

⁶² Cf. SBrb.: EWlmd. a-tākāmma, pl. i-tākāmma-t-ān “bras supérieur” [PAM 2003, 785] ||| Sem. *tVkm- “neck and shoulders” [SED]: Ug. tkm “1. Nacken mit Schulter, 2. oberer Teil eines Gebäudes” [WUS] = “shoulder” [DUL 903], Hbr. šakem “der Nacken mit den Schulterblättern, bes. als Körperteil, auf dem man eine Last trägt, der Teil des Körpers (Rücken), auf den man jem. schlägt, 2. Landstrich, eigtl. Rücken des Landes” [GB] = “1. the (nape of the) back or neck of a person, 2. shoulder (as a part of the body on which to carry a heavy load), the shoulder joint (as a part of the carcass of a sacrificial animal)” [KB] (Sem.: GB 826–7; WUS 334, #2866; Faber 1984, 210, #50; Lsl. 1987, 496; Voigt 1994, 107; KB 1492–3; SED I 251, §281) ||| PCu. *sVnk^w- “1. затылок, спина, плечо, 2. то место, на котором носят грузы” [Dlg.] = *sVkm- → *sVmk- “shoulder” [GT]. From AA *√čkm “shoulder” [GT]. Cf. also Dlg. 1983, 136, #9.2 (Sem.-Bed.-LECu.). Hardly a borrowing from Arabic, where its reflex (if related at all ...) has undergone serious semantical shift, cf. Ar. takam- “1. (tracé du) chemin, (milieu de la) route” [BK I 231b] = takam-, tukm-at- “1. milieu (du chemin), 2. chemin, voie” [Blachère 1210a] = takm- (sic) “shoulder (of road)” (sic) [Faber]. Besides, A. Ju. Militarev (1991, 242) admitted AA *č > Brb. *s, (?) *š, and also *t (no question-mark), although he did not provide the lexical evidence.

⁶³ Which was combined by Ch. Ehret (1980, 290) with Dahalo ?ittātōni “3rd day after tomorrow” to reconstruct SCu. *titām- “tris, set of three”.

⁶⁴ Attested in Kafa šim-itt-ō [Crl. 1951, 307; Bnd. 1971, 259] = simm-itt-o [PB] = šimm-itt-o [Lmb.: so also in Sheko!], Mocha šim-itt-o [Lsl. 1959, 51; Bnd. 1971, 260], Shinasha sim-itt-a [Schuver in Grottanelli 1940, 103] = šim-at-a [Grottanelli 1941, 266] = šim-itt-a [PB] = šamm-ətt-à [Lmb.], Bworo šim-itt-ē [Brauner 1950, 70; Bnd. 1971, 259], Anfillo šim-itt-ó [Grottanelli 1940, 103; Bnd. 1971, 258] (Kefoid data: PB 1963, 468; Zbr. 1983, 384; Lmb. 1993, 376).

⁶⁵ As suggested by E. Cerulli (1951, 309, §xxiv.1) and M. Lamberti (1993, 376).

⁶⁶ Hardly to be explained from *šimin-t- to have the 3rd radical of ES *√smn (as suggested by W. Leslau 1959, 51 with a hint on some Gurage dialects, where -n- was not preserved, cf. Chaha sumut, Muher, Selti səmmut, the vocalization of which do not fit, however), since, suspiciously, Kefoid 6, 7, 8 all have this suffix -Vtt-. In addition, how could ES *s- have become Kefoid *š- if it was a borrowing?

⁶⁷ The Bedawye numeral is evidently not an Arabic loan. According to the usually accepted segmentation, the Beja numerals from “6” to “9” are formed on the basis of the pattern of Bed. asa “growing” + “1”, “2”, “3”, “4” (cf. Bed. vmhy “3”).

⁶⁸ Any inner Egyptian derivation is vain here. Declining its commonly accepted Semitic etymology, V. Blažek (1999, 251) tried to explain Eg. psd “9” on the basis of Eg. psd “sich entfernen von, sich abwenden von (r)” (PT, ÄWb I 479; Wb I 556), i.e., “9” < psd{-md.w} “[one] removed away from {ten}”. However, Blažek ignored that the latter is a denominative verb of Eg. psd “back”, and so it may literally have denoted “den Rücken wenden” (Wb).

116),⁶⁹ which may seem impossible at the first glance as, in fact, only the second radicals correspond. The initial p- in Eg. instead of an expected *t- is unusual, which, after a few vain attempts,⁷⁰ W. F. Albright,⁷¹ followed by others,⁷² correctly explained by the incompatibility of OEg. *ts.⁷³ But they never discussed the question as to why this sequence turned into Eg. ps-. It is due to another incompatibility law, namely that of OEg. *sʕ, which had to turn either to *sh (cf. EDE I 326) or *sd (the irregular correspondence of Eg. -d vs. Sem. *-ʕ occurs in a number of convincing examples, among which there are also roots devoid of s).⁷⁴ In either cases, we get a third radical which is compatible with p- only, the other possible voiceless stop to replace t- being k-, which is incompatible with both -h and -d. The choice between -sh vs. -sd was probably decided under the influence of Eg. md “10”.

Whether and how Berber “9” (usually bearing the consonants √tz or √tz), reconstructed in various forms,⁷⁵ and frequently included in the Egypto-Semitic etymology above,⁷⁶ can be related, is disputed. It is evident, that the medial radicals (Brb. *-z- vs. Sem. *-š-) are not at all in agreement. In addition, V. Blažek (1999, 47) excluded the relationship of the Egypto-Semitic isogloss to Berber “9”, which he explained as a contraction of *t(V)-[k]ūzah “[5] + 4”, cf. Brb. *hakkūz “4” [Prasse].

The Southern Afro-Asiatic evidence of the root for “9” reflected in Semitic and Egyptian is scarce. It occurs in fact only in ECh. *√tgs ~ *√gst “9” [GT]⁷⁷ as suggested by A. Trombetti

⁶⁹ This Semito-Egyptian equation was accepted by A. Erman (1892, 111); W. M. Müller (1907, 303); A. Ember (1911, 91; 1912, 90, fn. 4; ESS §8.c, 112, §18.a.9, §24.d.4); F. Hommel (1915, 16, #2); K. Sethe (1916, 20); W. F. Albright (1918, 92; 1923, 68; 1926, 189; 1927, 201); E. Zyhlarz (1931, 138, §7); Sh. Yeivin (1932, 137); H. Mercier (1933, 313–314); O. Rössler (1966, 228; 1971, 302, 307); Ju. N. Zavadovskij (1967, 43; 1974, 109, 112; 1975, 49); KHW 153; W. Schenkel (1990, 52, 57; 1991, 116; 1997, 114); J. Zeidler (1992, 205); G. Takács (1999, 141; 2000, 343–344, #8.3; EDE II 516–7). The same comparison was declined by C. T. Hodge (1976, 15, #164), V. Blažek (1997, 16; 1999, 250–251, #9; 1999, 46–47, #9), and E. Lipinski (1997, 288, §35.14).

⁷⁰ E.g., K. Sethe (1916, 20) compared this phenomenon to the regular change of PIE *k^wa/o- → Gk. πα/o- vs. PIE *k^we- → Gk. τε-, which has, however, not been established in the Egyptian *Lautgeschichte* as a regular shift.

⁷¹ Cf. Albright 1918, 92; 1923, 68; 1926, 189; 1927, 201.

⁷² O. Rössler (1966, 228; 1971, 302, 307), W. Schenkel (1990, 52, 57).

⁷³ This reasoning seems acceptable, since the sequence of word initial *ts- is not attested in Old and Middle Egyptian (cf. Wb I 328). Similarly, J. H. Greenberg (1950, 176) observed no instance of a dental followed by a sibilant in the Semitic root stock either except for Sem. *√tšf “9”. For the frequent incompatibility problems in the Semitic numerals 1–10, cf. Greenberg 1950, 178, §5.

⁷⁴ (1) Eg. sḏm < *smd “to hear” (OK, Wb IV 144) ||| Sem. *√šmʕ “to hear” [GT] (Eg.-Sem.: Hommel 1882, 9; 1894, 351, fn. 1; 1915, 16, fn. 3; Müller 1907, 303; Ember 1911, 91; 1912, 90, fn. 4; 1918, 30; 1926, 6; 1926, 309, fn. 8; Yeivin 1932, 137; Vycichl 1934, 63; Vergote 1945, 142, §16.b.23; Cohen 1947, #82; Schenkel 1993, 143 etc.). (2) Eg. nḏs “klein, gering” (PT-, Wb II 384–385) ||| Sem. *√nʕs “to be small, weak” [GT] (cf. Hommel 1883, 441, fn. 30; 1894, 351, fn. 1; 1915, 16, fn. 3; Erman 1892, 113; Ember 1912, 90, fn. 4; 1926, 6; 1926, 309, fn. 8; 1930, §11.a.43, §24.d.2; Vycichl 1934, 63; Vergote 1945, 147, §24.b.2; Cohen 1947, #80; Rössler 1966, 228). (3) Eg. nḏm “süß, angenehm” (OK, Wb II 378–380) ||| Sem. *√nʕm “to be pleasant” [GT] (cf. Hommel 1883, 98; 1894, 351, fn. 1; 1915, 16, fn. 3; Erman 1892, 113; Müller 1907, 303; Ember 1911, 91; 1926, 6; ESS §10.a.25, §11.a.41; §24.d.1; Vycichl 1934, 63; Vergote 1945, 147, §24.b.1; Cohen 1947, #81; Schenkel 1993, 143; Loprieno 1994, 120). (4) Eg. ḏns “to be heavy” (MK, Wb V 468–469) ||| LECu. *ʕils-/ʕuls- “heavy” [Sasse 1975, 245; 1976, 127] proposed by O. Rössler (1966, 228).

⁷⁵ PBrb. *təzah (?) “9” [GT] = *√ts [Rössler 1966, 228] = *taššaʔu [Rössler 1952, 143] = *tza [Zavadovskij 1974, 109; 1975, 49] = *tizāh ~ *tūzah [Prasse 1974, 403, 404].

⁷⁶ See Zyhlarz 1931, 138, §7; Mercier 1933, 313–314; Vycichl 1938, 135; 1966, 269; 1974, 63; 1992, 385; Rössler 1952, 143, #74; 1966, 228; 1971, 302, 307; Zavadovskij 1967, 43; 1974, 109, 112; 1975, 49; Zeidler 1992, 205; Takács 1999, 141; 2000, 343–344, #8.3.

⁷⁷ Cf. Lay group *√tgs [GT]: Dormo tigesu [Hfm.], Gabri tigesu [AF] = tegès [Dcr.], Chire tینگēšū [Hfm.], Kabalay tegesu [Hfm.], Lay tegese [Hfm.] | PSomray *√ts or *√ds [GT]: Somray dōso [Barth], Ndam disa [Bruel] = tiše

(1977, 53) and G. Takács (1999, 141; 2000, 343–344, #8.3). The phonological correspondence of ECh. *-g- < AA *-ʕ is not yet proven, however. As for the metathesis in East Chadic, it is noteworthy that V. Blažek (1990, 32; 1991, 210) supposes Sem. *tišʕ- “9” to reverse the order of Sem. *ʕašt- “1”.

Leaving aside the equation with Semitic “9”, G. Takács (EDE II 517–518) discussed all other alternatives (q.v.), and among others he ventured an alternatively a comparison of Eg. psd < *ʕpsʕ with NOm. *ʕbz (stem vowel *-i-) “1” and “9” [GT],⁷⁸ which apparently stands isolated in Afro-Asiatic.

Eg. √md (masc. md.w, fem. md.t) “zehn” (OK, Wb II 184): in spite of the abundance of various etymologies suggested until very recently a completely satisfactory solution has not been found. In any case, the Amarna cuneiform (14th cent. BC) evidence (mu-ṭu)⁷⁹ and Cpt. (SALMB) myt “ten” (CD 187b) suggest *mūdaw (m) vs. (f) *mūd̥t (Edel 1955, 166–176). Leaving aside the evidently untenable etymologies,⁸⁰ we may only describe all the considerable solutions:

(1) F. Behnk (1928, 139, #33) saw in Eg. md [possibly < *mg] a metathesis of WCh.: Hausa góómà “10” [Brg. 1934, 397; Abr. 1962, 332] = góómàà [JI]. I.e., Eg. *mūd̥.w < **dūm̥.w < pre-OEg. **gūm̥.w? It is highly noteworthy that the sequence dm- was not typical in Egyptian. Regarded as “possible” also by V. Blažek (1989, 215–216; 1997, 17; 1999, 251–3, §10; 1999, 47–49, §10) and Ju. N. Zavadovskij (1974, 104; 1975, 50–51). The Hausa numeral for “10” is a reflex

[Décorse], Tumak disa [Décorse] = bisa [Brue], Miltu disa [Hfm.], Sarwa doso [Hfm.] | Mokilko gèssát [Lukas 1977, 210] = gèssát(t) [Jng. 1990, 101] (ECh. data: Hoffmann 1971, 9).

⁷⁸ Attested in SEOmto *bizz-o “1” [GT]: Haruro (Kachama) bizz-o [Crl. 1936, 631, 642] = biz-ε [Sbr.], Zayse bizz-ō [Crl. 1938 III, 201] = bizz-o [Sbr.], Zergulla biz-o [Sbr.], Koyra (Badditu) bizz-ō [Crl. 1929, 60] = bīz-o [Bnd.] = bīžž-o [Hyw. 1982, 215] = bīžž-o [Sbr.], Gidicho biz-e [Bnd.] (SEOmto: Bnd. 1971, 256–257; Zbr. 1983, 387; Sbr. 1994, 18) | Chara biz-ā “9” [Crl. 1938 III, 165] = biž-a ~ biž-a “9” [Bnd. 1974, 19; Flm. 2000 MS, 7] | Sezo beš-é “9” [Sbr.-Wdk. 1994, 15].

⁷⁹ Occurs in a list of Egyptian words (EA 368), cf. Smith & Gadd 1925, 230–8, esp. 236, §15; Lambdin 1958, 186; Edel 1975, 11f.; 1980, 17 & fn. g.

⁸⁰ (1) A. Trombetti (1902, 198), C. Brockelmann (1908, 487), W. Worrell (1926, 272), and G. A. Barton (1934, 30) erroneously equated LEg. md, Dem. mt, and Cpt. (S etc.) myt with Sem. *miʔ-át- “hundred” [Dlg.], which has rightly been declined by W. F. Albright (1918, 92, fn. 6), later also by F. A. Dombrowski and B. W. W. Dombrowski (1991, 342) and by V. Blažek (1999, 251–3, §10; 1999, 47–49, §10). (2) There is a long tradition of comparing Eg. md with the reflexes of PBrb. *mɛraw “10” [Zhl. 1934–35, 185] = *marāw [Prs. 1974, 403, 405] = *mra (m), *mra-ut (f) [Zvd. 1975, 50–51, §14.0] = *mārāw (sic) [Vernus] = *maraw [Mlt., GT], cf., e.g., Gabelentz (1894, 99); Meinhof (1912, 240); Zyhlarz (1931, 137–138, #8; 1932–1933, 104; 1934, 104, 106, 111, fn. 1); Mercier (1933, 314); Wölfel (1954, 58); Lefebvre (1955, 276) and Korostovcev (1963, 14): both misquoting the Brb. root as mzu (sic!); Rössler (1966, 227; 1971, 317); Zavadovskij (1967, 43; 1974, 111–112; 1975, 50–51, §14.0); Loprieno (1986, 1309); Blažek (1989, 215–216; 1990, 41; 1997, 17–18); Dombrowski and Dombrowski (1991, 344); Vernus (2000, 180, 192): Eg. mdw (sic) “a un cognat possible avec le berbère”! Rejected by W. Vycichl (DELIC 124) and G. Takács (1995 MS, 4, #7; 1996, 139, #35; 1996, 442, #2.3) as there is no evidence for Eg. -d ~ Brb. *-r-, while Brb. *-w is part of the root (contrary to Eg. masc. md.w vs. fem. md.t). (3) K. Sethe (1916, 17) and A. Loprieno (1986, 1309): Eg. md “10” < md “deep”, but they failed to demonstrate the odd semantic shift with typological parallels. V. Blažek (1997, 17; 1999, 251–3, §10; 1999, 47–49, §10) excluded a direct connection. (4) Ju. N. Zavadovskij (1974, 112; 1975, 44) and A. Loprieno (1986, 1316, n. 32): metathesis of PCu. *tṃn “10”. Absolutely unlikely. Eg. -d ≠ Cu. *t-. Cu. *-n not reflected in Eg. (5) I. M. D’jakonov (1986, 61; 1988, 67): ~ Sem. *maʔd- “many”, but Eg. d ≠ Sem. *d. Declined already by V. Blažek (1989, 215–216; 1997, 17) and G. Takács (1994, 217; 1996, 139–140, #35; 1996, 442, #4; 1999, 136; 1999, 203). (6) A. Loprieno (1986, 1309, 1316, n. 33) suspected the ultimate common origin of Eg. md “10” and md “deep” with Sem. *√mšš “aufsaugen”(!), *√mdd (!) “lang ziehen, ausdehnen”, *√mtt (!) “lang ziehen, ausdehnen”. Impossible. E.g., how should one figure a relationship between “aufsaugen” vs. “10”? Rejected already by V. Blažek (1999, 251–3, §10; 1999, 47–49, §10).

of PCh. *g^wam- “10” [Nwm. 1977, 32] = *√g^wm [JS 1981, 263; JI 1994 I, 165].⁸¹ C. Hoffmann (1970, 12–14) and H. Jungraithmayr & D. Ibriszimow (1994 I, 165) considered PCh. *√g^wm “10” to be an old Niger-Congo loan (cf. Benue-Congo *-kumi “10”), which would exclude its equation with Eg. mḍ. However, a genuine AA etymology of PCh. *√g^wm is also possible, cf. AA *√gm “complete (or sim.)” [GT]. V. Blažek (1987 MS, 41), in turn, combined the PCh.-Eg. parallel with SBrb.: Ahaggar a-g^yim (-ġ- apud Fcd.) “millier” [Fcd. 1951–2, 444], Ghat a-žim (a-djim apud Nehlil) [-ž- < *-g^y-] “mille” [Nhl. 1909, 179].

(2) V. Blažek (1987 MS, 41; 1990, 41) equated Eg. mḍ with CCh.: Higi gr. *muṇ- “10” [GT],⁸² which might only be valid if Eg. *mūd.~w < **mūd.~w (nowhere attested) and if the Higi numeral < **mung-. Mentioned also by G. Takács (1994, 217) in the context of further AA parallels. The etymology of Higi gr. *muṇ- “10” is uncertain.⁸³

(3) C. T. Hodge (kind p.c. on 4 September 1994) has not excluded a connection with PBrb. *tē-mihḍay, pl. *tī-muhād “100” [Prasse 1974, 406].⁸⁴ Since PBrb. *ḍ < PAA *ĉ (cf. Mlt. 1991, 242; Takács 2006, 57–59, 62), the phonological correspondence of Eg. ḍ ~ PBrb. *ḍ is regular, although PBrb. *-h- has no match in Eg. mḍ. The etymology of the Berber numeral is obscure.⁸⁵

(4) V. Orel & O. Stolbova (1992, 202) identified it with their ECh. *m^waž- “10” (no reflexes mentioned), which is certainly a false reconstruction. This asterisk-form is solely based on the

⁸¹ Attested in WCh.: Gerka (Yiwom) [IL] | Dera (Kanakuru) gum [Pls.] = gûm [Krf., Jng.], Tangale gbom̩ [Jng.] < *g^wom- [GT] | (?) Tsagu wúúma [Skn. 1977, 34: < PCh. *g-m-] | Ngizim (< Hs.?) guma [IL] = gumà [Krf.] = gúumà [Schuh], Bade (< Hs.?) gúmā [IL] = guumà [Krf.] (WCh.: also Pls. 1958, 85) || CCh.: Tera gwàn [Nwm. 1964, 36, #10], Tera-Jara gwom [Nwm.], Hwona gumdiḍi ~ kúm [Krf.], Boka kum [Krf.], Gabin kúm [Krf.], Ga’anda kum [Krf.] | Bura-Margi *kum- [GT] > Margi kúmú [Hfm.] = kumu [Krf.], WMargi kuma ~ kumε [Krf.], Chibak kyme [IL] = kuma [Krf.], Bura kuma [Krf.], Wamdiu kumò [Krf.], Hildi kúmò [Krf.], Kilba kúmà [Krf.], Ngwahyi kuma [Krf.] | Fali-Kiria gwùm(ù) [Krf.], Fali-Jilbu gumù [Krf.], Fali-Mucella gùm [Krf.], Fali-Bwagira po-gumu [Krf.] | PMandara *g^wamgV (?) [GT]: Dghwede gwàngá [Frick] = ḥwàngá [IL], Ngweshe ùwàngò [IL], Paduko žuma [Mch.] | Sukur úwân [IL] < *g^wam (?) [GT] | Musgoy gup [Mch.], Daba gúb [Lienhard] | Musgu gum [Roeder] | PMasa *g^wuḥ- < **g^wum- (?) [GT]: Lame gwúḥú [Krf.], Lame-Peve gwúḥ [Krf.], Zime-Batna gúp [Jng.] = gùḥù [Scn.], Misme-Zime goub [Krf.] || ECh.: Mokilko kòòmá(t) [Jng.] (Ch.: Mkr. 1987, 43, 222; Ibr. 1990, 211–212; JI 1994 II 320–321).

⁸² Attested in Higi mēngě [Str.] = m^wōñé [Mrl. 1972, 102] = mūñəy [Br̩t.-Jng.], Higi-Nkafa mūñəy [Krf.], Higi-Baza mūnge [Lks. 1937, 113] = mūñə [Krf.], Higi-Kamale mūñε [Krf.] vs. Kapsiki (= Kamale?) mǎng [Str.] = mən̩ [WL] = mən̩(ə) [Br̩t.-Jng.], Higi-Ghye mūñəy [Krf.], Higi-Bana mən̩ə [WL] = mən̩ [Br̩t.-Jng.], Higi-Futu mūñi [Krf.], Fali-Gili mūñ [Krf. 1972 MS] (Higi group data: Strümpell 1922–1923, 123; Wente-Lukas 1973, 7; Kraft 1981 II, 131, 141, 151, 161, 171, 191, #10; Br̩t.-Jng. 1993, 131).

⁸³ Contrary to V. Blažek (l.c.), D. Ibriszimow (1990, 211–2) excluded a metathesis of PCh. *gum-/ *g^wam- “10” (above). Later, Blažek (1999, 251–3, §10; 1999, 47–49, §10) derived Higi gr. *muṇ- “10” from *mu-mg-, which might be etymologically identical with Agaw *mang- “many” [GT] || LECu. *mang- “many” [GT] || NOm.: Shinasha manga “heavy” [Lmb.] (discussed below). If this is correct, a remote kinship between Higi gr. *muṇ- with Eg. mḍ is not impossible.

⁸⁴ Attested, a.o., in NBrb.: Nefusa te-mîṭi [Mtl.] = tə-miṭi [Lst.] = te-miti [Mrc.] || EBrb.: Sokna sən̩nət t-mîṭin “deux cents” [Lst.] || WBrb.: Zenaga ta-māde (sic, -d-) “100” [Ncl. 1953, 206] || SBrb.: Ahaggar té-médé, pl. ti-maḍ “centaine” [Fcd. 1951–2, 1165] = ti-miḍi [Mtl.] = tə-miḍi [Lst.] = ti-miḍi [Mrc.], ETawllemmet ti-miḍi [Bst.] = ETawllemmet & Ayr te-meḍe ~ Ayr ti-miḍa “1. centaine, 2. cent” [PAM 1998, 210; 2003, 524], Kel Ui ti-maḍi [Wlf.], Ghat ĉi-miḍi “cent”, senat ĉi-maḍ “deux cents” [Nhl. 1909, 138; Mrc.] (Brb.: Lst. 1931, 209; Mrc. 1933, 316; Wlf. 1954, 74).

⁸⁵ (1) A. Klinghenben (apud Wölfel 1954, 75) and M. G. Mercier (1933, 316) erroneously explained it as a late borrowing from Ar. miṭ-at- (!), which has rightly been excluded by Wölfel (l.c.). Surprisingly, this erroneous equation of the Berber numeral with Sem. *miṭ-at- “1.000” has been recently adopted by E. Lipinski (1997, 291, §35.20). (2) F. Nicolas (1953, 206) combined it with WBrb.: Zenaga √md “finir, être fini”. (3) GT: cf. ECh.: Mokilko mēedá (f) “cent, centaine(s)” [Jng. 1990, 138], although Mokilko -d- vs. Brb. *-ḍ- seem irregular.

isolated ECh.: Somray moṣ “zehn” [Nct. apud Lks. 1937, 80; Hfm. 1971, 9] = mwàṣ “10” [Jng. 1993 MS, 46; JI 1994 II, 321]. In theory, there could be a small chance that the Somrai form derives from an earlier $\sqrt{m(w)g}$,⁸⁶ but this is surely not the case here due to the firm evidence for that Somray moṣ [Nct.] reflects $\sqrt{mwd}$.⁸⁷ The Afro-Asiatic background of the ECh. numeral is disputed. V. Blažek (1997, 18; 1999, 251–3, §10; 1999, 47–49, §10): < $\sqrt{mVdV}$ ~ Eg. mḍ and even PBrb. *tē-mihḍay “100” [Prasse 1974, 406]. In principle, Somray -ṣ < ECh. *-ḍ < AA $\sqrt{c}/\sqrt{č}/\sqrt{ḥ}$ is plausible,⁸⁸ but we have insufficient evidence for *-ḍ- in the East Chadic numeral against *-d-. Consequently, the available records provide hardly anything for equating Eg. and ECh. “10”. G. Takács (1999, 136; 1999, 202–203, #3.2) connected ECh. $\sqrt{m(w)d}$ with Sem. *maḍd- “many” [Djk.] ||| PBrb. impf. *ya-mduh, pf. *yu-mdah [Prasse 1975, 227] = *ə-mdu < $\sqrt{md[h]}$ “to complete” [GT] ||| SOM.: Ari mūda “all” [Bnd. 1994, 1158, #1]. If this comparison proves to be valid, the East Chadic numeral can have nothing in common with Eg. mḍ.

(5) G. Takács (1994, 217–218; 1995 MS, 5–6, #7; 1996, 140, #35; 1996, 443, #7; 1999, 40, 50–51, 143) affiliated Eg. mḍ “10” with ECu. *mig-/mug- “fullness”, *mg- (prefix verb) “to fill” [Sasse 1979, 25] = *-meg- “to be full” [HL 1988, 127; Lmb. 1993, 353] = *-mig- “to be full” [Ehret 1997 MS, 196, #1771] = $\sqrt{mVg}$ - “many, full” [GT].⁸⁹ This Egypto-East Cushitic equation was as-

⁸⁶ Cf. perhaps ECh.: Somray řāṣḥ [Jng.] vs. Ndam yágā “to cut, chop” [Jng.] (ECh.: JI 1994 II, 99).

⁸⁷ Attested by its earlier record and its closest cognates listed by J. Lukas (1937, 74, 87) and C. Hoffmann (1971, 9): Somrai moid “10” [Adolf Friedrich] = moet [Gaudefroy-Demombynes], Dormo moid [Adolf Friedrich] | Gabri moid [Adolf Friedrich] = mwòṣḥ [Caprile 1972 MS], Chire moodo “10” [Barth apud Lukas].

⁸⁸ Cf. ECh. *gaḍ- “cheek” [GT]: Kabalai kwaṣi [Cpr.] | Somray gāṣé “cheek” [Jng.] | WDangla gāḍumò [Fédry] | Birgit gāḍáyó [Jng.] (ECh.: JI 1994 II, 69) ||| SBrb.: Ahaggar ā-g/ḡaz (-ḡ- apud Fcd.) “joue” [Fcd. 1951–2, 491] ||| PCu. *gAc(c)- “лицо, лоб” [Dlg.] > Bed. gēdi “das Gesicht, Antlitz, Auge” vs. g^wad ~ g^wada ~ g^waṣ ~ gaṣ “Auge, Gesicht” [Rn. 1895, 89–90] = (also) g^waḍ, pl. g^wada “face, eye” [Dlg.] || NAgaw *gāc “face” [Apl.] = *gāc (?) [GT]: Bilin gāṣ, Hamir gaṣ, Qwara-Dembea gaṣ, Qemant gāṣ (NAgaw: Apl. 2006, 63) || ECu. *gaḍ- “jaw” [Apl., KM] || SCu.: WRift *gicē “forehead” [KM 2004, 117] < AA $\sqrt{gc}/\sqrt{ḥ}$ “cheek” [GT] (cf. Cohen 1947, #197; Dolgopolskij 1973, 297; HSED #866 vs. #914).

⁸⁹ Attested in Saho mag “anfüllen, voll machen” [Rn. 1890, 258–9] = mag “remplir” [Chn.] = -meg- (prefixed) “to fill” vs. mig-e “fullness” [Sasse] = -emmeg- “to be full” [HL] = emege (imp. amage) “to fill”, mig-e “fullness” [Vergari 2003, 78, 135], Saho-Assaorta mag-, pass. m-mag “essere molto, in molti, essere pieno” [CR 1913, 70] = meg- “to be numerous, full (быть многочисленным, полным)” [IS], Afar mag “anfüllen, voll machen” [Rn. 1886, 880] = -eng- [< *-emg-] “to fill” [Sasse] = -emmeg- “to be full” [HL] = enge “to fill” [PH 1985, 163], Afar-Tadjurah mog-o “many (много)” [IS] | Oromo mog-a “fullness”, miṣ-ū [-ṣ- < *-g-] “full” [Sasse], Oromo-Waata magā-ta “many” [Strm. 1987, 362], Oromo-Bararetta imieke “full” [Flm.], Konso imako-ta “full” [Flm.] = immak- “to be full” [HL], Gidole innako-ta “full” [Flm.] = innak- “to be full” [HL], Gato imako-da “full” [Flm.] | OSomali *ammūg- “füllen” [Lmb. 1986, 437] > Somali mug “Fülle, Vollheit” [Rn. 1902, 288] = mūg- “fullness” [Abr. 1964, 182], PBaiso & Jiddu (sic) *ʔu/img- “full” [Ehret & Nuuh Ali 1984, 229], Baiso mig-i “full” [Flm.] = mig-i “to be full” [HL] = ʔamoga “many” [Sbr. 1994, 17] | Yaaku -mok [< *-mog], pl. -móṣe? “many, much” [Heine 1975, 130] (ECu.: Dlg. 1973, 256–257; Sasse 1979, 25; HL 1988, 127). In H.-J. Sasse’s (1979, 25) view, the Konso & Gidole parallels (with -n/-k-) “are obviously cognate, but display problematic correspondences”, for which cf. NAgaw: Kemant imkuy “être abondant (le blé)” [CR 1912, 164] ||| WCh.: Tangale mūkmūk “somewhat full” [Jng. 1991, 121] || ECh.: EDangla mak “(idéophone d’accomplissement)” [Dbr.-Mnt. 1973, 192]. Do these parallels display traces of an AA root var. $\sqrt{mk}$ “full” [GT]? The relatedness of further possible parallels is still to be cleared, cf. LECu.: Rendille mig, pl. amíge, mimíge “strong, hard” [Heine 1976, 216, 220] = mīg (f) “Kraft, Macht” [Schlee 1978, 140, #774] = mīg-e “strength” [Oomen 1981, 72] = mīg “strength, stiffness, tightness, heaviness, hardness, difficulty” [PG 1999, 224] ||| NOM. *magg- “1. full (?), 2. (hence) heavy” [GT]: Haruro māgg-āys “essere contento” (lit. “to be full”?) [CR 1937, 653] | Kefoid *magg- “to be heavy” [GT]: Kaffa mag- [Crl. 1951, 470] = magg- [Dlg.], Mocha maggi-yé “to be heavy”, magg-o “heavy” [Lsl. 1959, 40], Sheko maggo “heavy” [Lmb.] (NOM.: LS 1997, 459 with semantically false comparanda) is semantically problematic. For the ECu.-NOM. comparison see Dlg. 1967, 9, #7; 1973, 256–257; IS 1976, 41–42; Lmb. 1993, 111 (Cu.-Om. $\sqrt{mVg}$ - “to be full, heavy”).

sessed by V. Blažek (1999, 251–3, §10; 1999, 47–49, §10) as the “*most convincing*” one of all the etymologies offered so far for Eg. mḍ. The reflexes of ECu. *mig-/mug- [Sasse] and NOm. *magg- “full” [GT] have often⁹⁰ been compared with the Cushito-OmotiC root containing an additional *-n-, cf. *√mng “much” [GT],⁹¹ on whose etymology there is no agreement in Cushitic studies.⁹² The ultimate source of Eg. mḍ and ECu.-NOm. *mVg- “1. many, 2. full, 3. heavy, 4. strong (?)” [GT] may be AA *√mg “1. big, 2. long, high” [GT].⁹³ The semantic shift of Eg. mḍ “10” as a “full, big” number is supported by a number of typological parallels.⁹⁴ The

⁹⁰ Cf. Reinisch 1886, 880; 1890, 259; Conti Rossini 1913, 71; Leslau 1945, 163; 1979 III, 408–9; Illič-Svityč 1976, 41–42; Appleyard 1977, 26/68; Haberland-Lamberti 1988, 127; Lamberti 1993, 353; Lamberti-Sottile 1997, 459 (with semantically false comparanda).

⁹¹ Cf. NAgaw: Qemant māngā “foule, quantité, multitude” [CR 1912, 230] = manga “multitude, crowd” [Lsl.] (Appleyard, p.c. on 20 April 2007: “*without any doubt a loan from*” Amharic mānga “herd, flock, crowd”, which, in turn, is “*obviously a loan from ECush.*”) || SAgaw *menči [-či < *-ki] “many” [GT]: Awngi ménč “many” [Htz./Bnd. 1971, 238, §50] = mʷenŋči (so!) [Flm./Bnd.] = ménči [Bnd. 1973 MS, 7, #51] = ménč “many” [Apl. 1991, 8], Kunfal menči “many” [Birru & Adal 1971, 102, #50] = mīnči “many” [Bnd. 1970, 3, #50] || LECu. *mang- “numerous” [GT] > Saho mang “viel, zahlreich werden, sich mehren” [Rn. 1890, 259, 269–270], Afar mang “angefüllt, voll werden/sein” [Rn. 1886, 880, 882] || NOm.: Shinasha-Bworo mang-á “heavy (schwer, gewichtig)” [Lmb. 1993, 111; 1993, 353].

⁹² The Saho-Afar stem *mang- has been explained by L. Reinisch (1886, 880 1890, 259) from a pass. *m-ang “angefüllt werden”, cf. Saho-Afar caus. s-ang < √mag. C. Conti Rossini (1913, 71) extended this also to NAgaw (Kemant) assuming a common PCu. *mag > *m-mag > *mamg > Kemant & Saho-Afar mang-. G. Banti (p.c., 19 April 2007), in turn, sees in the LECu. forms a prefix ma- (“*the form is like* mabla ‘seeing’” in Saho-Afar). D. Appleyard (p.c., 20 April 2007) shares the same view: “*mamga is certainly the more ‘archaic’ in so far as it is more transparently the nominal prefix ma- + the verbal root -mg-, i.e. PEC *mig-/mug- etc. ‘be full’ ... it seems to me quite reasonable to build a new ‘root’ on the basis of a nominal derivation *ma-m[V]g-; partial reduplication of the C₁VC₁VC₂- type seems less likely to me*”. The Cu. stem was probably borrowed into Eth.-Sem.: Gafat māngä, Amh. mānga, Gurage-Soddo mānga “herd, flock” (ES: Leslau 1945, 163; 1979 III, 408–9; Appleyard 1977, 26/68 with less likely alternative Semitic etymologies). For reasons outlined here, the comparison of Cu.-Om. *mang- with CCh.: PHigi *mun- “10” [GT] (above) seems at the moment rather unlikely.

⁹³ Attested in Sem.: Akk. magāgu (also maqāqu) “(weg)spreizen” [AHW 574] || NOm.: Ometo *mēg- “col” [GT]: Wolayta & Dawro (Kullo) meg-uwa, Gofa & Gamu & Dorze mēg-o | Shinasha mēg-o (NOm.: Alm. 1993 MS, 8, #202b) || CCh. *√mg... “long (of stick)” [JS 1981, 169B₁]: Musgu masc. mógwa, fem. muguíí, pl. mógwáakai “lang, hoch” [Krause apud Müller 1886, 401] = mógoa [Rohlfs] = mogó “lang” [Overweg] = ana-mogó “it is big” [Rohlfs] = mogó “groß” [Roeder] = mugwi “hoch” [Décorse] = mógo “groß” [Lks.], Musgu-Pus mogo (m), mogwi (f), pl. mogokai “hoch” [MB 1972 MS, 4] = mogo (masc.), muguwiy (fem.) “long” [Trn. 1991, 106], Musgu-Girvidik mógó (m), mógwí (f), pl. mógwáy “hoch” [MB 1972 MS, 4] = mogo(m) “lang” [MB 1972–73, 70] (Musgu: Lukas 1937, 141; 1941, 68) || ECh.: Tumak māgōn “nombreux”, cf. māg “être capable, pouvoir, beaucoup” [Cpr. 1975, 81]. For the AA etymology see IS 1976, 41–42; HSED #1704. Cf. also Ssem. *√mgn (root ext. *-n?) “very (much)” [GT]: Jibbali mēkən “much, many, a lot of” [Jns. 1981, 170], Mehri maken [-k- < *-g-] “beaucoup, très” [Lsl.] = mēken [Jahn] = mēkən “much, many, a lot of” [Jns. 1987, 264] || Amh. magan “très large” [Lsl.] = māgān “1. very large, unusually or strangely large (size), portentous, 3. type of long shield used by a fully-grown man” [Kane 1990, 343] (Sem.: Lsl. 1931–34, 35).

⁹⁴ Cf. (1) PCh. *g^wam- “10” [Nwm. 1977, 32] ~ WCh.: Angas-Sura *gam “to fill” [GT] (Angas-Sura data: Hfm. 1975 MS, 24, #215; Stl. 1972, 181; 1977, 154, #65; 1987, 217, #676; GT 2004, 121) | Bole-Tangale *(n)gamu “to fill, be full” [Schuh 1984, 216] = *(n)-g^wam [GT] | Nbauchi *g-m- “to gather, join, meet” [Skn. 1977, 23] (WCh. data: Stl. 1987, 217–8; JI 1994 II, 156) || Sem. *√gmm “völlig sein/machen” [GB] > Hbr. gam “zusamt, steigernd” [GB 143] | Ar. ḡamma I “1. être riche, 2. être abondant, se remplir de nouveau d’eau, 3. être comble” etc., ḡamm- “1. abondant, exubérant, 2. complet, 4. (mesure) comble” [BK I 321–2] (for further Sem. cognates see Hodge 1971, 42; Zbr. 1971, #58; MacDonald 1963–65, 75; WUS #664; Vycichl 1987, 114) || Eg. ngmgm (prefix n-) “sich versammeln” (XVIII., Derchain-Urtel 1973, 39–40 contra Wb II 349, 15) || HECu. *gumʔa “all” [Hds. 1989, 411] || NOm.: Oyda gāma “much, many” [Dlğ. 1973, 78]. For the Ar.-WCh. comparison: Stl. 1987, 218; OS 1990, 80, #55; HSED #888. Or

same is to be observed about Afro-Asiatic “hundred”,⁹⁵ “thousand”,⁹⁶ “ten thousand”,⁹⁷ and “hundred thousand”.⁹⁸

Summary

The results of the etymological analyses presented above lead us to the following table. Note that (+) in brackets signifies an existing, albeit indirect, correspondence of an Egyptian numeral, displaying some deviation in form. E.g., North Afro-Asiatic “two” (* $\sqrt{\text{čn}}$) is ultimately related to South Cushitic and Chadic “two” (* $\sqrt{\text{čr}}$), but only as ancient heteroclitic root varieties in Proto-Afro-Asiatic.

Eg.	Sem.	Brb.	Cu.	Om.	Ch.
$\sqrt{\text{w}}\text{f}$ “1”	+	+?	-	-	-
$\sqrt{\text{sn}}$ “2”	+	+	(+)	-	(+)
$\sqrt{\text{hmt}}$ “3”	-	-	+	+	+
$\sqrt{\text{fd}}$ “4”	-	-	-	+	+
$\sqrt{\text{dj}}$ “5”	(+)	-	-	-	-
$\sqrt{\text{srs}}$ “6”	+	+	-	(+)	(+)
$\sqrt{\text{sfh}}$ “7”	+	+	+???	+	+
$\sqrt{\text{hmn}}$ “8”	+	(+?)	(+)	(+)	-
$\sqrt{\text{psd}}$ “9”	+	+?	-	-	+?
$\sqrt{\text{md}}$ “10”	-	-	(+)	(+)	+

cf. (2) Sem. * $\sqrt{\text{ašar}}$ - “10” [Dlğ. 1986, 79, #14] ||| WCh.: Angas-Sura * $\sqrt{\text{sār}}$ “ten” [GT] (Angas-Sura data: Jng. 1965, 182; Hfm. 1975 MS, 20, #93; Stl. 1972, 182; 1977, 157, #188; JI 1994 II, 320; Takács 2004, 334–5) ||| Eg. $\sqrt{\text{š}}\text{š}$ [< * $\sqrt{\text{šr}}$] “viel (sein)” (OK, Wb I 228, 8–26). For the Eg.-Sem.-Angas-Sura etymology: Trb. 1902, 199; Ember 1917, 88, #135; ESS §3.b.4; Alb. 1918, 92; 1931, 150; Vrg. 1945, 128, §1.c.8; Cohen 1947, #47; Hodge 1976, 15, #165; OS 1988, 82; Blv. 1989, 15; Mlt.-Stl. 1990, 65.

⁹⁵ Cf. NOM.: Kullo (Dawaro) tet-a “100” [CR 1913, 410] ||| Eg. twt “versammeln, versammelt sein” (PT, Wb V 259–260) ||| (?) WCh. * $\sqrt{\text{tvt}}$ - “to gather” [OS] (for the Eg.-PWCh. etymology see OS 1992, 195). Or cf. Sem. * $\sqrt{\text{rb}}$ “big” > Ebl. rib(b)a or ribab “10.000” [Brugnatelli 1984, 86–87; Gordon 1988, 261] ||| Ug. rbt, Hbr. rəbabā, Aram. ribbābtā “10.000” (Canaanite: Ember 1917, 87; WUS #2481).

⁹⁶ Cf. ECu. * $\sqrt{\text{kum}}$ - “1.000” [Sasse 1979, 12, 25; 1982, 120] ||| SCu. * $\sqrt{\text{kuma}}$ “1.000” [Ehret 1987, 30] ||| NOM. * $\sqrt{\text{kum}}$ - “1.000” [GT] ~ Eg. km “vollständig machen, vollenden” (MK, Wb V 128–130) ||| EBrb.: Siwa kôm, koma “tout, beaucoup” [Lst. 1931, 304] = “all, whole” [Mlt. 1991, 250] ||| LECu.: Baiso kamogani “much, many” [Ehret] ||| NOM.: POMeto * $\sqrt{\text{kum}}$ - “to be full” [GT] (NOM. data: LS 1997, 412).

⁹⁷ Cf. Sem. * $\sqrt{\text{rb}}$ “big” > Ebl. rib(b)a or ribab “10.000” [Brugnatelli 1984, 86–87; Gordon 1988, 261] ||| Ug. rbt | Hbr. rəbabā, Aram. ribbābtā “10.000” (Canaanite: Ember 1917, 87; WUS #2481). Or perhaps Eg. $\sqrt{\text{dbf}}$ “10.000” (I-, Wb V 365–366) ~ NOM.: She geba “many” [Flm.] ||| SOM.: Hamer & Karo $\sqrt{\text{ge?bi}}$ [Flm.: error for * $\sqrt{\text{ge?bi}}$] “big” [Flm.] (Om.: Flm. 1976, 317) ||| ECh.: WDangla góóbé “remplir un récipient (en l’immergent dans l’eau)” [Fédry 1971, 329]. As noted by W. Vycichl (1934, 80), the comparison of Eg. $\sqrt{\text{dbf}}$ with WCh.: Hausa dubu “1.000” (suggested by N. Skinner 1981, 187–8, #105 pace Barth) is excluded. For an alternative etymology of Eg. $\sqrt{\text{dbf}}$ see Takács 1997, 217, #9.

⁹⁸ Cf. Eg. $\sqrt{\text{hfn}}$ [< * $\sqrt{\text{hfl}}$] “100.000” (I-, Wb III 74, 1) ~ Sem.: Ar. $\sqrt{\text{hafala}}$ I “reichlich vorhanden sein”, V “sich in grosser Zahl versammeln”, $\sqrt{\text{hafl}}$ - “Menge”, $\sqrt{\text{hafil}}$ - “zahlreich” [Vrg., Vcl.]. For Eg.-Ar. see Sethe 1916, 13–14; Ember 1917, 87, #135; ESS §9.a.7; Albright 1918, 93; Vergote 1945, 136, §9.b.26; Cohen 1947, #111; Vycichl 1958, 377; Loprieno 1986, 1310. For a different (less convincing) etymology of Eg. $\sqrt{\text{hfn}}$ see Holma 1919, 41; Hodge 1976, 12, #49; 1990, 370.

Conclusion

The first two, i.e., the most elementary and primary numerals, are evidently North Afro-Asiatic with no match in the southern block of the phylum, which clearly suggests an aboriginal northern affiliation of Egyptian just like the common North Afro-Asiatic apophony penetrating Semitic, Egyptian, and Berber morphology.

But the obvious South Afro-Asiatic nature of Egyptian “three” and “four” seems to testify to later renewed ties of Proto-Egyptian with the southern block, i.e., a secondary areal cohabitation, which agrees quite neatly with the lack of the prefix conjugation, an isogloss in the whole phylum shared by both Egyptian and Chadic grammar, which is paralleled by the undeniable domination of South Afro-Asiatic items in the overwhelming majority of Egyptian anatomical terminology, let alone the multitude of exclusively Egypto-Chadic lexical isoglosses.

Egyptian “five” must be an Egyptian innovation based on an extinct Eg. *jd “hand” = Sem. *yad- “hand” as a nisbe form, which was to render “5” only on the Egyptian side. This innovation was either very late having ousted Semito-Berber * $\sqrt{h}$ ms “5”, or was simply much earlier than the latter. The former scenario seems more likely in the light of the separation of Egyptian from the Northern Afro-Asiatic block earlier than that of Semitic and Berber (cf. Takács 2015).

Once again the set of Egyptian numerals from “six” to “nine” comprises Semitic (and Berber) words (only “seven” seems to be sporadically attested in South Afro-Asiatic too), but, for some suspicious reason, all of them suffer from some fundamental phonological irregularity in Egyptian atypical of genetically inherited Egypto-Semitic cognates, cf. Eg. -r- vs. Sem. *-d- in “6”, Eg. -f η vs. Sem. *-b η in “7”, Eg. η - vs. Sem. *t- in “8”, Eg. p-/d vs. Sem. *t/*- η in “9”. Does this puzzle speak for a borrowed and not inherited nature of these higher numerals during a later secondary areal contact with Semitic, perhaps in the neolithic Nile valley (5th mill. BC?)?

Finally, Egyptian “ten” is a South Afro-Asiatic word exclusively attested in Chadic (although the underlying verbal root is Common Afro-Asiatic), which may indicate a common decimal system created (together with SAA “3” and “4”) during the above mentioned secondary areal cohabitation of Proto-Egyptian and Chadic (or South Afro-Asiatic).

Abbreviations of languages

(A): Akhmimic, AA: Afro-Asiatic, Akk.: Akkadian, Ar.: Arabic, Aram.: Aramaic, (B): Bohairic, BD: Book of the Dead, Bed.: Bed’awye, Brb.: Berber, Ch.: Chadic, CCh.: Central Chadic, CT: coffin texts, Cu.: Cushitic, ECh.: East Chadic, ECu.: East Cushitic, E: East(ern), Eg.: Egyptian, EWLmt.: East Tawllmmet, (F): Fayyumic, GR: Greek (Ptolemaic) and Roman Period, GW: syllabic or group-writing, Hbr.: Hebrew, HECu.: Highland East Cushitic, IMP: Intermediate Period, JAram.: Jewish Aramaic, (L): Lycopolitan (or Subakhmimic), LECu.: Lowland East Cushitic, Lit.: literary texts, LP: Late Period, M: Middle, Mag.: magical texts, MK: Middle Kingdom, N: North, NBch.: North Bauchi, NBrb.: North Berber, NK: New Kingdom, NOM.: North Omotic, OEg.: Old Egyptian, OK: Old Kingdom, Om.: Omotic, OT: Old Testament, PB: post-Biblical, PCh.: Proto-Chadic, PCu.: Proto-Cushitic, PT: pyramid texts, S: South(ern), (S): Sahidic, SBrb.: South Berber, Sem.: Semitic, W: West(ern), WBrb.: West Berber, WCh.: West Chadic, WSem.: West Semitic.

Abbreviations of authors

Abr.: Abraham, Ajl.: Ajello, Alb.: Albright, Alm.: Alemayehu, Apl.: Appleyard, BA: Birru & Adal, BK: Biberstein & Kazimirsky, Blv.: Belova, Blz.: Blažek, Bmh.: Bomhard, Bnd.: Bender, Brg.: Bargery, Brk.: Brockelmann, Brt.: Barreteau, Cpr.: Caprile, CR: Conti Rossini, Crl.: Cerulli, Ctc.: Caïtucoli, Dbr.-Mnt.: Djibrine & Montgolfier, Djk.: D’jakonov, Dlg.: Dolgopoli’skij, Dlt.: Dallet, Drnb.: Doornbos, Dst.: Destaing, Ehr.: Ehret, Fcd.: Foucauld, Fdr.:

Fédry, Flk.: Foulkes, Flm.: Fleming, Frj.: Frajzyngier, Frz.: Fronzaroli, Ftp.: Fitzpatrick, GB: Gesenius & Buhl, Gcl.: Gochal, Grb.: Greenberg, GT: Takács, Hds.: Hudson, Hfm.: Hoffmann, HL: Haberland & Lamberti, Hlw.: Hellwig, Hmb.: Homburger, HRV: Heine & Rottland & Voßen, Hyw.: Hayward, IS: Illič-Svityč, JA: Jungraithmayr & Adams, JI: Jungraithmayr & Ibrizimow, Jng.: Jungraithmayr, Jns.: Johnstone, Jst.: Justinard, KB: Koehler & Baumgartner, KM: Kießling & Mous, Kmr.: Kammerzell, Krf.: Kraft, Ksm.: Kossmann, Lks.: Lukas, Lmb.: Lamberti, Lnf.: Lanfry, LS: Lamberti & Sottile, Lsl.: Leslau, Lst.: Laoust, MB: Meyer-Bahlburg, Mch.: Mouchet, Mkr.: Mukarovsky, Mlt.: Militarev, Mnh.: Meinhof, MQK: Mous & Qorro & Kießling, Mrc.: Mercier, Mrn.: Moreno, MSkn.: M. Skinner, Mts.: Matsushita, Ncl.: Nicolas, Nct.: Nachtigal, Nhl.: Nehlil, NM: Newman & Ma, Ntg.: Netting, Nwm.: Newman, Old.: Ol'derogge, OS: Orel & Stolbova, PAM: Prasse, Alojaly, Mohamed, PB: Plazikowsky-Brauner, PG: Pillinger & Galboran, PH: Parker & Hayward, Pls.: Pilszczikowa, Prd.: Paradisi, Prs.: Prasse, RK: Reutt & Kogan, Rn.: Reinisch, Rns.: Renisio, Rpr.: Roper, Rsg.: Rossing, Rsl.: Rössler, Sbr.: Siebert, Scn.: Sachnine, Skn.: N. Skinner, Smz.: Shimizu, Snk.: Schenkel, Spg.: Spiegelberg, Srl.: Sirlinger, SSL: Simeone-Senelle & Lonnet, Stl.: Stolbova, Str.: Strümpell, Strm.: Stroomer, Sts.: Starostin, TC: Taïne-Cheikh, Tf.: Taïfi, Trb.: Trombetti, Trn.: Tourneux, TSL: Tourneux & Seignobos & Lafarge, Vcl.: Vycichl, Vrg.: Vergote, Wdk.: Wedekind, Wlf.: Wölfel, WP: Walde & Pokorny, Wst.: Westendorf, Wtl.: Whiteley, Zbr.: Zaborski, Zhl.: Zyhlarz, Zvd.: Zavadovskij.

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Габор Такач. Древнейшие лексические слои египетского языка VIII: числительные.

Статья продолжает серию публикаций автора, объединенных общей целью проанализировать древнейшие слои базисной лексики древнеегипетского языка, расклассифицированные по семантическим полям, и разделить их на «семитский» и «африканский» пласты, существование которых было предположено П. Лако несколько десятилетий тому назад. В данной статье анализу подвергаются числительные древнеегипетского языка.

Ключевые слова: древнеегипетский язык, афразийские (афроазиатские) языки, этимология, сравнительно-историческая фонетика, числительные.