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**Лексическая база данных
по чадским языкам**

Выпуск VI

Губные b, f, p

Olga Stolbova

Chadic Lexical Database

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ПО ЧАДСКИМ ЯЗЫКАМ

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Монография представляет собой очередной выпуск серии «Лексическая база данных по чадским языкам. Это 360 этимологий с начальными губными согласными – прачадские корни и их когнаты в семитских, египетском, кушитских, мотских и берберских языках. Работа представляет интерес для специалистов по чадским и афразийским языкам и языкам Африки.

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Введение

Основной задачей шестого выпуска¹ «Лексической базы данных по чадским языкам» является представление в виде этимологических статей чадской лексики с губными согласными в начальной позиции. Чадская лексика с начальными губными согласными не раз становилась объектом исследования в афразийском контексте (GrL, AA I, II, EDE II, TN) однако во всех перечисленных работах задача состояла в обнаружении чадских параллелей к афразийским этимологиям. В нашем случае в фокусе исследования находится собственно чадская лексическая база. Результаты исследования чадской лексики с губными согласными представлены в работе В.М. Иллича-Свитыча [ISv], в которой на материале 12-ти чадских языков (которые были документированы к этому времени) реконструирована система прачадских губных согласных и установлены внешние когнаты для прачадских корней с губными согласными в анлауте и в инлауте. Однако с момента ее публикации (1966г.) количество языков, попавших в фокус исследования и объем чадской лексики увеличились в десятки раз, что повлекло за собой и изменения на всех уровнях реконструкции.

В настоящем исследовании наши усилия были направлены не только на реконструкцию чадских праформ (на основе регулярных фонетических соответствий) и поиска внешних когнатов, но и на выявление производной лексики с дальнейшим объединением всего “этимологического гнезда”. Аттрибуция многих производных форм стала возможной на основе исследований в области исторической морфологии и лексической семантики. Сведения об исторической морфологии в сочетании с методом аналогии позволяют определить принадлежность производной формы к определенному “этимологическому гнезду” даже в отсутствии в словаре непроизводной формы. Особое внимание было уделено и семантической составляющей – на основе проанализированного материала удалось выделить

¹ Предыдущие выпуски: Issue I. L, N, Ny, R, Issue II. Sibilants and sibilant affricates, Issue III. Lateral fricatives, Issue IV. Velars, Issue V. Gutturals.

характерные для чадских языков семантические сдвиги и на этой основе объединить некоторые лексические изоглоссы. В результате исследований по исторической морфологии и семантике удалось ввести в научный оборот значительную часть чадской лексики.

Установить регулярные фонетические соответствия, на которых основана вся этимологическая работа, возможно только на полной лексической базе. Как будет видно из следующих разделов, при таком подходе можно определить регулярный рефлекс, и выявить многочисленные факты влияющие на отклонения в отдельных группах или языках.

Настоящее исследование стало возможным во многом благодаря моим коллегам, которые предоставили в мое распоряжение или разместили на сайтах неопубликованные материалы по чадским языкам. Всем им я чрезвычайно признательна. Также я благодарна А.Г. Беловой за консультации по арабскому материалу.

Губные согласные в чадских языках.

Трехчленная система афразийских губных согласных - **b*, **f*, **r* была постулирована еще в работе Дж. Гринберга [GrL]. Такая же система реконструируется и для прачадского. Основные, наиболее регулярные рефлексы, губных согласных в отдельных чадских языках, как и небольшое число корней можно найти в [CED]. Анализ всей лексики, с учетом нового материала по чадским языкам [Wff, JgN, GrPh, FrJ, FsM и нек. др.] позволяет внести некоторые уточнения и дополнения касающиеся, в частности происхождения губных *v*, *b*, *p*¹, которые возникли на разных уровнях (ветвей, групп, отдельных языков) и под влиянием разных факторов. О их вторичном характере свидетельствуют следующие данные.

1. Звонкая фрикативная фонема (*v*) отсутствует в Hausa² и вост.-чад. языках гр. 5 (dangla-mubi), которые, как мы предполагаем, первыми отделились от чадской семьи, а также и в

¹ эта проблема в [CED] не рассматривалась.

² Здесь и далее названия чадских языков даются в латинице с заглавной буквы, названия групп и подгрупп – в латинице со строчной буквы.

не-чадских афразийских языках. Существенно, что *v* является позиционным вариантом сразу двух чадских губных - *b* и *f*, наиболее регулярно – в интервокальной позиции (в структурах *CVb/fVC*, а также после присоединения префикса к формам с начальным губным - *b/fVC-* > *Pref-V-b/fVC-*). Кроме того, как показывает собранный материал, семитским структурам *wfC* & *HfC* соответствует структура *v(w)C* в чадских языках. Достаточно часто веляризация *b* наблюдается при втором гуттуральном фрикативном (*bVH* & *fVH* > *vV(H)*, а также и в следующих случаях: **bin-* & *fin-* > *vin-*; **bu/ir* - > *v-r-*. Кроме того, и *v*, и *b* возникают при редупликации: *bVbV* > *bVvV* > *vVvV*; *bVHbVh* > *bVbVH* > *bVbV*.

2. О вторичности чадского имплозивного (или эйективного) *b* писал еще Дж. Гринберг³ Это мнение разделял и М. Илич-Свитыч, он полагал, что прачадский имплозивный *b* «развился из семито-хамитского **b* в тех случаях, когда в исходной семито-хамитской форме был представлен глottализованный согласный (ларингал или глухой эмфатический), утраченный в чадском» [ISv: 30].

Гипотеза Дж. Гринберга о вторичность *b* (и *d*) подтверждается на собранном нами материале, гипотеза В.М. Илича-Свитыча о позиционных условиях возникновения имплозивных также подтверждается, но с одной оговоркой – эти фонемы не восходят к прачадскому уровню.

1. Имплозивные *b* и *d* возникли не на прачадском уровне, а по мере исчезновения ларингалов. Вторичная эмфатизация может распространяться не на все языки, во-первых, и воздействовать на разные согласные словоформы, во вторых. См. след. примеры:

а. Формы в языках гр. *masa* (Gizey, Ham, Lew, Musey, Marba, Masa *bó* ‘fleurir, цветти’) и подгр. *dangla* (Bidiya *booy*, Migama *bòoyòd* ‘fleurir’) несомненно являются когнатами и восходят к чад. **bVHVw*, но не к **bVw-*

б. Mofu *-bəd-* ‘laisser la place’ и Kuseri *bada* ‘to abandon’ несомненно являются когнатами арабского и сабейского корня *b'd* ‘s'éloigner, удалиться’. Но при этом в Mofu и Kuseri эмфатизиро-

³ “Regarding the distinction between *b* and *b*, for which there is at present no support outside of the Chad languages, it is safer to assume, until such evidence is forthcoming that the both continue a single original Proto-Afro-Asiatic phoneme” [GrL: 301f].

ваны разные согласные.

2. В корнях со вторым глухим эмфатическим, действительно, происходит ‘шифт/сдвиг эмфатизации’, или ‘вторичная эмфатизация’ ($*bV\dot{C} > bVC$), но опять не повсеместно, а только в тех языках, где отсутствуют эмфатические согласные. В языках Hausa, warji, kotoko (в их консонантной системе есть такие фонемы как *k̄*, и *ʂ*) вторичная эмфатизация не происходит, а формы типа *bVk̄* и *bVʂ* остаются без изменений.

3. Эмфатический глухой *ṛ* отмечен: а) в языке Goemai (гр. ngas); б) в языках Warji, Cagu, Mburku (гр. warji)

3.а. По мнению Г. Такача ([TAS: XXV], *ṛ* восходит к уровню прайзыка гр. ngas (W 4), но сохранился как эмфатический только в языке Goemai в начальной позиции. Заметим однако, что именно в этом случае нотация разных авторов очень часто не совпадает, ср. след. примеры: Goemai *ṛang* ‘stone’ [Srl]⁴ ~ *pang* ‘stone’ [Fp], *ṛaŋ* ‘stone’ [JgN]; Goemai *ṛak* ‘to crash in a mortar’ [Srl] ~ *pak* ‘to flatten’ [Hlw], Goemai *ṛas* ‘rainy season’ [Srl] ~ *pas* ‘rainy season’ [Hlw]; Goemai *ṛuk* ‘calf of the leg’ [Srl] ~ *pük* ‘Wade’ [Jg], и мн. др., см. [TAS: 298-303]. Там же отмечено, что цитируемый выше словарь языка Goemai - [Srl] - составлен на материале одного из диалектов (‘based primarily on the Kwo dialect of Goemai’ [ibid. XVIII]). Учитывая, что ни в одном из хорошо описанных языков той же группы (Ngas, Mwaghavul, Muriun) нет никаких следов эмфатического *ṛ*, эту фонему нельзя возводить даже к уровню прайзыка группы Ngas.

3.б. У немногочисленных форм с *ṛ-* в языках гр. warji есть внешние параллели, свидетельствующие о том, что *ṛ* восходит к сочетанию: *r+ларингал* или *ларингал+r*, например: гр. warji: Warji *ṛa-*, Mburku *ṛi-*, Kariya *ṛaay* ‘родить’, центр.-чад. Gude *poo* ‘родить’. Ларингал сохраняется в египетском языке: Eg *p'p'* ‘родить, рождаться’.

Как уже было сказано выше, для прачадского реконструируются три губные фонемы: **p*, **f*, **b*. На афразийском уровне оппозиция: смычный – фрикативный для глухих губных была постулирована Дж. Гринбергом [GrL], установившим взаимно-однозначное соответствие между этими фонемами в

⁴ Sirlinger. E. *Dictionary of the Goemai Language*. Jos, Nigeria, Prefecture Apostolic of Jos. 1937.

чадских языках гр. ngas и в древне-египетском. Эта гипотеза полностью подтвердилась и на новом материале по западно- и центральночадским языкам⁵.

Рефлексы *p и *f в чадских языках.

Западная ветвь: *p, *f > f- в Hausa (гр.1), бинарная оппозиция (*p и *f) сохраняется в группах ngas, warji, ngizim (W 2, 4, 6). В языках bole (гр. 3): оппозиция сохраняется в Karekare, Ngamo, Bele, но с постепенным вытеснением p. В Bolewa p & f различались по данным Й. Лукаса [LkB], в современном словаре [GAB] - только p (нельзя исключить, что это материалы разных диалектов). В Galambu, Tangale, Pero, Ma(a)ka, Bure, Bele чад. *p & *f > p-, в Kupto, Kirfi (и за небольшими исключениями - в Galambu и Gera) чад. *p & *f > f-.

В языках ron (W 7), и в языках zar (W 5) также происходит вытеснение p (при -n-, -s- во второй позиции или при конечном -h#). В этих группах нерегулярные рефлексы наиболее часты.

Центральная ветвь: основываясь на имеющемся в нашем распоряжении лексическом материале можно утверждать, что оппозиция смычный - фрикативный сохраняется во всех центральночадских языках (о позиционных изменениях см. ниже).

Восточная ветвь: оппозиция p ~ f сохраняется в языке Kera (гр. 1) и в Sokoro (гр. 4, с учетом короткого списка слов). Чад. *p, *f > f- в Mubi, Jegu, Birgit (гр. 5б), чад. *p, *f > p- во всех остальных вост. языках (гр. 2, 3, 4, 5а, 6).

В тех языках, где сохраняется бинарная оппозиция, наблюдаются нерегулярные рефлексы, и не всегда можно определить позиционные условия отклонений, особенно - при коротком словаре (об озвончении Ch *f: *f- > v- см. выше). Основные причины нерегулярных рефлексов это: регрессивная ассимиляция, диссимиляция и влияние гласного.

Регрессивная ассимиляция начального p- наблюдается:

- а. при сибилянте во второй позиции (*pVs- > fVs-) в языках warji (W 4), tera (C 1), mandara (C 5), kotoko (C 8);
- б. при вторым велярном спиранте (*pVh/y- > fVh/y-) в гр. ron

⁵ Заметим, однако, что Р. Гравина реконструирует для пра-центр.-чад. уровня только *p, с дальнейшим расщеплением на p и f во всех группах [GvPh: 232].

(W 7), tera (C 1).

Регрессивная ассимиляция начального *f*- наблюдается:

а. при дентальном во второй позиции: **fVt*- > *pVt*- в Gude (C 4), **fVt/d*- > *pVt/d*- в Fali Kiriya (C 3). В словаре [BlFK] нет ни одной формы вида *f-d* или *f-t*.

Регрессивная диссимиляция по глухости – звонкости наблюдается в центр.-чад. языках при сибилянте/аффрикате или ларингале во второй позиции: **f-s*- > *v-s*-, **f-c/č*- > *v-c/č*-, *fVh*- > *vVh*- . В некоторых языках можно обнаружить оба варианта, например, Mofu -*fč*- и -*vč*- ‘enfumer, activer (le feu)’, Mofu -*fħ*- и -*vħ*- ‘revenir, retourner’. Есть основания полагать, что озвончение изначально возникло в корнях с сонорным в препозиции: **n-f-s* > *n-v-s* > *v-s*-.

В языке Bana (C 3) наблюдается диссимиляция двух фрикативных в кластере: чад. **fx*- > Bana *px*-, при этом формы с анлаутным кластером *fx*- в словаре не представлены.

Перехода **fVk*- > *vVk*- в гр. W 5-7, C 8 также объясняется диссимиляцией по глухости-звукости.

Особый рефлекс губного согласного наблюдается перед гласным *u*: в Hausa *fu*- > *hu*-; спорадически тот же рефлекс наблюдается в языке Ngamo (W 3) и языках W 5, 7. В языке Mina (C 6) перед гласными *-u*- и *-o*- возможен только спирант (*fo*-, *fu*-) [FJ: 8].

Рефлексы прачадского **b*-.

Чад. **b*- > *b*- во всех чадских языках (о многочисленных позиционных изменениях см. ниже).

Дж. Гринберг полагал, что в языках гр. ngas (Plateau) произошло оглушение начального звонкого чад. **b*-> Plateau **p*⁶. Свою гипотезу он выдвинул на основании следующих примеров:

1. ngas: Goemai *pin*, Gerka *pin* ‘house’ ~ Chadic: Bolewa *bin* ‘hut’, Sokoro *beeni* ‘to build’, Proto-Semitic **bny* ‘to build’.

2. ngas: Chip, Goemai *pit*, Gerka *pət* ‘monkey’ ~ Chadic: Bolewa

⁶ “In initial position, The Plateau languages usually shifted the voiced stops of the non-Plateau Chad languages and the other Afro-Asiatic languages to the corresponding unvoiced forms. In a number of instances Plateau *p* corresponds to *b* elsewhere” [GrL: 297].

biido, Hausa *bírii* ‘monkey’.

3. ngas: Ngas, Chip, Mwaghavul *po*, Goemai *puo*, Gerka *pa-k*⁷ ‘mouth’ ~ Chadic: Bolewa *bo*, Hausa *baa-ki* ‘mouth’.

Дополнительный материал по языкам ngas указывает на то, что в данном примере велика вероятность оглушения по ассим. с показателем класса частей тела *-k*, и даже – в рамочной конструкции (**k-b-k*), см. Gerka *pa-k*, Tal *kà-phiiu-x* ‘mouth’ [JgIb].

4. ngas: Ngas, Mwaghavul *paar* ‘night’ ~ Chadic Bolewa *boodi*, Ngamo *bedi*, Dera *biri* ‘night’; Cushitic Saho *bar* ‘night’.

В этом случае сопоставление кажется сомнительным по двум причинам. Во-первых, в абсолютном концу слова все чадские дентальные отражаются в языках ngas как *-t#*, но не как *-r#*). Так что когнатом (‘true cognate’) Bolewa *boodi*, Ngamo *bedi*, Dera *biri* ‘night’ является только одна форма (из публикации 2013г.): Gerka *pwót* ‘night’ [BIY]. Кроме того, новый материала по языкам ngas, указывает на иную исходную семантику. Вот как выглядит полный список релевантной лексики: Mushere *par* ‘day’, *kà-bar* ‘night’ [JgO], Ngas *paar* ‘night, the night time’, ‘also used when we should say ‘day’ – “we’ll meet another day”, *paar(n)paar* ‘very early in the morning (when it is still dark, but just before dawn)’ [Fl], Ngas *paar* ‘night’ (and ‘day’), i.e. ‘the sunless part of the 24 hours’ day’, *mpaar* ‘very early, still dark, at dawn’ [JgN], Mupun *pár* ‘night, 24 hours period’, Gerka *pwót* ‘night’ [BIY], *piru* ‘night’ [Fl], Mwaghavul *paar*, Chip *li-pàr* ‘night’ [Kr]. При таких значениях в отдельных языках, наиболее адекватной кажется исходная семантика ‘сутки, 24 hours period’, с последующим семантическим сдвигом: ‘часть суток’ > ‘ночь, день’.

В собранном нами и представленном в виде этимологий чадском материале с начальным **b-* есть лишь еще несколько случаев оглушения начального прачадского звонкого губного в языках ngas, а именно:

5. ngas: Mwaghavul *kə-fürùm*, *fürùm*, Ngas *ferem*, Mushere *bórùmò* [JgO], Goemai *férám* ‘knee’. Cp. в гр. W 3: Boewa *bùrùm*, Gera *bùrmì*, Geruma *burmù*, etc.

6. ngas: Mwaghavul *pít* ‘to put out fire, switch off light’, Ngas *pit* ‘to put out fire’, Goemai *pít* ‘extinguish smth’. Cp. В языке Hausa

⁷ См. Hausa *žii-ki*, Ngas *še-uk*, etc. ‘body’, с показателем класса частей тела (*k*) в постпозиции, см. еще примеры в [StV].

bíčè (< *bite*) ‘to go out (lamp, fire), extinguish’.

7. ngas **pwap* ‘kind of antelope’: Gerka *pwip*, Montol, Goemai, Chip *pap*, Mwaghavul *pàap*, Ngas *peep*, Mupun *páap*. Cp. в гр. W 3: Galambu *bùbà*, Karekare *bàwi*, Ngamo *bòʔì* ‘kind of antelope’.

8. ngas: Goemai *pàap* ‘get hidden or lost’. Cp. в гр. W 3: Karakare *bàwu* ‘to get lost, disappear, die’ [GK]

9. ngas: Mupun *pú-pwáp*, Mwaghavul *pú-pwáp* ‘fish sp.’, Ngas *biip*, *bwoop* ‘fish’ (публикации 1915г.). Cp. в гр. C 8: Logone *bwabwa* ‘fish’.

10. ngas: Goemai *bi*, Mnt *be* ‘place’ (публикация 1911 г.), Goem *pè* ‘place’ (публикация 2013 г.). Cp. в гр. bole: Bolewa *bèyi*, Dera *bóɪ* ‘place’.

Очевидно, что оглушение **b* в языках гр. ngas регулярно наблюдается лишь по ассимиляции с конечным *-p* в формах с редупликацией: **bV(w/y)* > *bVbV* > ngas *bVp#* > *pVp* (примеры 7-9). Регрессивное оглушение (по аналогии с предыдущим случаем?) возможно и по ассимиляции с глухим дентальным в абсолютном конце слова (примеры 2, 4, 6). Наконец, оглушение *b*- отмечено в именах с префиксом *k-* (примеры 3, 6). К последнему типу можно отнести и пример 1. Велярный префикс сохранился в центрально-чадских языках, а именно: Fali Bwagiru *kù-vun*, Wandala *bre* ‘hut’, *kú-vre*, Dghwede *ká-viré* ‘cornbin’ (-*n*- > -*r*- регулярно). Варианты одной и той же формы, приведенные в примерах 9-10, свидетельствуют о позднем характере перехода *b* > *p*.

Таким образом, можно сделать вывод о том, что за некоторыми исключениями и при наблюдаемой тенденции к оглушению, прачад. **b* все еще сохраняется как *b* в языках нгас.

Позиционные изменения начального **b*:

a. Оглушение начального **b* наиболее регулярно происходит в языках Boghom, Tal (W 5). В нескольких случаях глухой рефлекс показывают Tangale, Pero, Kupto (W 3), Tala (W 5), а также языки ron (W 7). По данным Ньюмана [Nm: 16], начальные смычные регулярно оглушаются в языках С 1 (кроме языка Tera).

b. В чад. языках плохо сочетаются звонкие смычные (*b* & *d*). В Kupto (W 3) регулярно происходит диссимилияция по месту образования: чад. **b-d* > *f-d*. В значительном количестве языков -

W 4, 5, центр.-чад., Е 1 - отмечена диссимиляция по способу образования $*b\text{-}d > v\text{-}d$, $*b\text{-}d > bVd$.

с. В языках W 4 и нескольких центр.-чад. (Tera, Fali Kiriya, Podoko, Mafa, Sakun) отмечены единичные случаи $*bVh/\gamma > vVh/\gamma$.

д. Веляризации *b*- по ассимиляции с сибилянтами или аффрикатой ($*bVs/c- > vVs/c$) отмечена в языках W 4, 5, 6 и центр.-чад., в языках рон (W 7) $*bVs > fVs-$.

С появлением новых материалов по чадским языкам можно будет более точно установить причины отклонений от регулярной рефлексации. Например, они могут возникать из-за запрета или ограничения сочетаемости каких-то фонем в отдельных языках.

Структура этимологической статьи.

Принцип организации материала остался прежним, а именно: объединять лексические единицы, которые: а) максимально близки (идентичны) с точки зрения семантики и б) по фонетическим параметрам могут иметь общий источник. Потенциально родственные корни даются под тем же номером с индексом а), б), и т.д. Производные слова даются отдельно, с указанием способа образования. Указывается тип этимологии - общечадская, на уровне ветви, на уровне подгруппы. Менее очевидные когнаты даются в рубрике "сравни".

Этимологическая статья начинается с реконструированной формы под звездочкой и предполагаемого исходного значения. Рефлексы по языкам упорядочены по ветвям (Западная, Центральная, Восточная), а внутри ветвей - по подгруппам.

Названия языков пишутся с заглавной буквы, названия групп - со строчной. Сокращения названий языков см. на стр. 26. После лексемы стоит значение по источнику и ссылка на источник (в квадратных скобках). Для языков, лексика которых всегдадается по одному и тому же источнику, подобная ссылка опускается. Список таких языков (и соответствующий каждому из них источник "по умолчанию") см. на стр. 239. Все отклонения от рефлексов, установленных ранее, отмечаются, даются пересылки при регулярно повторяющихся отклонениях и указывается их возможная причина.

После знака // приводятся внешние параллели. В качестве когнатов двухсогласных чадских форм рассматривались

семитские корни ‘media geminata’ ($C_1C_2C_2$), а также корни с третьим, алефом, фарингальным (\aleph , ξ , \hbar) или полугласным (w , y) в любой позиции или с начальным n - (который и в семитологии признается "расширителем" двухсогласной ячейки).

Реконструируемые именные корни имеют структуру CV(V), CV(V)CV или CVC(V)CV. Многосложные глаголы - CV(V)C- или CV(V)C(V)C-, односложные - CV(V) (поскольку структура C- не позволяет различать между кратким и долгим гласным односложного глагола). Если в языках отмечены формы с кратким гласным, реконструируется праформа CV. Если лексические рефлексы по языкам имеют вид CV, CV?V, CVw(V) или CVy(V), реконструируется двусложная форма со слабым согласным во второй позиции. Почти все глаголы вида $C_1VC_2(V)C_3$ - являются производными от соответствующих C_1VC_2 - . Исключение составляют глаголы с лексикализованным инфиксом мн.ч. $-k$ - (в этих случаях $C_1V_kVC_3$ - восходит к C_1VC_3 -) и с префиксом $?a$ -.

После внешних параллелей даются ссылки к общечадским реконструкциям Г. Юнграйтмайра и Д. Ибришимова [JgIb], и П. Ньюмана [Nm]< а также к уже имеющимся афразийским этимологиям, которые включают чадский материал. Особо выделяются все случаи, когда внешние когнаты к чадской этимологии уже были ранее установлены.

Основную часть публикации составляют полноценные этимологические статьи, их характеризует однозначная реконструкция на обширном чадском материале и (за редким исключением) надежная внешняя параллель.

Отдельным списком даются менее надежные (фрагментарные) лексические изогlossenны.

Foreword

This issue continues the publication of Chadic Lexical Database. It is aimed to arrange Chadic data with labial initials in a kind of ‘etymological nests’, including the main form and derivatives and to supply such entries with external cognates. The research in the field of Chadic diachronic morphology help to identify derivatives in the lack of the main form in the corresponding word-list.

Afro-Asiatic roots with initial labial consonants not once were under discussion (e.g., GrL, AA I, II, EDE II, TN). However, the main goal of these and similar studies was to provide Afro-Asiatic etymologies with Chadic data. In our case, namely Chadic data is in the focus.

I am grateful to the colleagues who supplied me with their unpublished materials on Chadic languages or allowed the free access to their dictionaries, grammars, word-lists and other data.

My special thanks are due to Anna Belova for consultations concerning Arabic cognates. I appreciate my daughter Kate and my grandson Max who helped me to overcome problems provoked by my self-isolation.

Introduction

I. Chadic voiceless labials: *f, *p.

The AA system of labial consonants was under discussion in [GrL]. As Greenberg noted, the thesis of his paper was that “Egyptian distinction between /p/ and /f/ is original for AA, because a number of plausible etymologies show that the correspondence of Plateau⁸ *p* and *f* to Egyptian *p* and *f* is highly probable” [GrL: 301]. Contradicting data has not been found. Further research proved that the AA distinction of voiceless labials (*p* & *f*) still preserves in most of Chadic languages. The reflexes of voiceless labials in individual Chadic languages are as follows.

West Chadic: reflexes of Ch **p* and **f* have fallen together as *f* in Hausa; the opposition (*p* vers. *f*) preserves as such in ngas, warji, ngizim groups (W 2, 4, 6). In the bole group: **p* & **f*->*p*- in Tangale, Pero, Ma(a)ka, Galambu, Bure, Galambu Bele, **p*- & **f*->*f*- in Kupto

⁸ Ngas-sura (=ngas) group of West Chadic (W 2).

and Kirfi, with a few exceptions – in Galambu and Gera). The opposition preserves in Karekare and Ngamo, but *f*- is overpowering. According to J. Lukas [LkB], the distinction was active in Bolewa, according to [GAB] only *p*-initial is attested.

In *ron* (W 7) and *zar* (W 5) reflexes are far from regular, *f*- prevails in our data (esp., in roots with a spirants or *n* in the C₂ position).

The basic opposition is active in the **Central branch**⁹ (on violations due to specific environments see below).

East Chadic: the main opposition is active in Kera (E 1) and Sokoro (E 4). Chadic **p*, **f* > *f*- in Mubi, Jegu, Birgit, Kajakse, Toram, Masmaje (= E 5b, accord. to [NmC], but = E 7, accord to [JgIb]), Chadic **p* and **f* > *p*- in E 2, 3, 4, 5a (in [NmC], but 5 in [JgIb]).

It is likely, that the phonological system is tending to eliminate the opposition of initial voiceless labials, thus numerous violations of regular reflexes, is not a surprise, mostly due to assimilation/dissimilation or prefixation. It goes without saying, that with a short word-list the reason for a concrete violation is mostly obscure.

More frequently regressive assimilation of Ch **p*- may be motivated:

- a. by a sibilant as C₂ (**pVs*- > *fVs*-) in W 4, C 1, 5, 8.
- b. by a velar spirant (**pVH*- > *fVH*-) in W 5, C 1, 8, Musgu.
- c. Regressive assimilation of Ch **f* may be provoked by a dental as C₂ (**fVt*- > *pVt*-) in Gude (C 4), **fVt/d*- > *pVt/d*- in Fali Kiriya (C 3).

The regressive voiceless-voiced dissimilation: **fVk*- > *vVk*- is traced in W 5-7, C 8; similar dissimilation of two spirants, or of a spirant and an affricate (**f-s*- > *v-s*-, **f-c/č*- > *v-c/č*-) is attested in CChadic languages. Sometimes, the both variants still preserve, cf.: Mofu -*fəč*-, -*vəč*- ‘enfumer, activer (le feu)’; Mofu -*fəh*-, -*vəh*- ‘revenir, retourner’.

⁹According to [Gv: 232], however, “the position most consistent with the data is that in Proto-Chadic there was only **p*, and in Proto-Central Chadic there was still the one phoneme, but the phoneme had two allophones [f] and [p]. In the proto-languages of the groups within Central Chadic /f/ and /p/ became contrastive, as they are in almost all of the present-day Central Chadic languages”.

A specific reflex may be provoked by a round vowel: *fu-* > *hu-* is regular in Hausa and is traced sporadically in Ngamo (W 3) and in zaar languages (W 5). In Mina (C 6) “The labial voiceless stop *p* does not occur before round vowels *u* and *o*, but does occur before the vowel *a* and before schwa” [FJ: 8].

It is likely that labials tend to distribute according to their position (C₁ vers. C₂): *f-*, but *-p-*, *-p#*. Note also W 3 Kupto, Kiffi *f-*, but *-pp-*.

II. Chadic *b

II.1. With a number of exceptions, Chadic ***b-** preserves in daughter-languages. The most typical (but not exclusive) exceptions are as follows (for the situation in the ngas-sura gr. (W 2) see II.2. below):

- a. Chadic ***b-** quite often shows a voiceless reflex in Boghom (W 5), sometimes - in Pero, Kupto, Tangale (W 3), Tala (W 5). Chadic ***b-** mostly preserves in roots with a voiced consonant as C₂ or in contact with a prefix. According to [Nm: 16], in Hona, Gaanda, Gabin (CCh 1) all Ch voiced obstruents show voiceless reflexes.
- b. The following changes are due to incompatibility of two voiced plosives (*b* & *d*): ***b-d** > *f-d* in Kupto (W 3), the shift: Ch ***b-d** > *v-d-* is traced in a lot of languages (W 4, 5, CCh, E 1)
- c. regressive spirantization may be influenced by a sibilant or an affricate: ***bVs/c-** > *vVs/c* (noted in W 4, 5, 6 and in C Ch); in the ron group (W 7) ***bVs** > [*vVs-/-fVs-*]
- d. regressive spirantization of the type: ***bVh/y-** > *vVh/y-* is traced in warji (W 4) languages and in a number of CChadic (Tera, Fali Kiriya, Podoko, Mafa, Sakun).

II.2. Plateau languages = ngas-sura (W 2).

According to [GrL: 297] “In initial position, the Plateau (W 2) languages usually shifted the voiced stops of the non-Plateau Chad languages and the other Afro-Asiatic languages to the corresponding unvoiced forms. In a number of instances Plateau *p* corresponds to *b* elsewhere”. He also pointed, that Ch W 2 *b-* follows Ch ***mb-** and that AA ***b-** sometimes preserves in W 2 (e.g., Sem ***b?**s ‘bad’ is cognate with W 2 Ngas *bós*, Chip *bis*, Mwaghavul *biš* ‘bad’) [GrL:

301]. The following examples of the $*b- > p-$ shift in the W 2 group are given in [Gr: 297f]:

1. W 2 Goemai *pin*, Gerka *pin* ‘house’ ~ Bolewa *bin* ‘hut’, Sokoro *beeni* ‘to build’, Proto-Sem **bny* ‘to build’.
2. W 2 Chip, Goemai *pit*, Gerka *pət* ‘monkey’ ~ Bolewa *biido*, Hausa *bírii* ‘monkey’.
3. W 2 Ngas, Chip, Mwaghavul *po*, Goemai *puo*, Gerka *pa-k*¹⁰ ‘mouth’ ~ Bolewa *bo*, Hs *baa-ki* ‘mouth’.

In this case (according to some additional data), devoicing may be provoked by a body-part’ suffix, or even, by a ‘confix’ (or ‘frame’) cf. Gerka *pa-k* and esp., Tal *kà-phuu-x* ‘mouth’ [JgIb].

4. W 2 Ngas, Mwaghavul *paar* ‘night’ ~ Bolewa *boodi*, Ngamo *bedi*, Dera *biri* ‘night’; Cush Saho *bar* ‘night’.

In this very case, forms in W 2 may not cognate with **b-d* ‘night’. The only exception is Gerka *pwót* ‘night’ (not mentioned in [GrL], but attested in [BIY]). Other forms rather follow W 2 **par* ‘24-hours period’ > ‘day’, ‘night’: Gerka *piru* ‘night’ [Fl], Mwaghavul *paar*, Chip *li-pàr* ‘night’ [Kr], Mushere *par* ‘day’, *kà-bar* ‘night’ [JgO], Ngas *paar* ‘night, the night time’, ‘also used when we should say ‘day’ – “we’ll meet another day”, *paar(n)paar* ‘very early in the morning (when it is still dark, but just before dawn)’ [Fl], Ngas *paar* ‘night’ (and ‘day’), i.e.‘the sunless part of the 24 hours’ day’, *mpaar mpaar* ‘very early, still dark, at dawn’ [JgN], Mupun *pár* ‘night, 24 hours period’.

Note also that Chadic roots **CVd/tV* > W 2 **CVt#* (devoicing in auslaut, the same is true also for velars, labials and sibilants). Thus W 2 *-r#* < Ch **-d-* would be irregular.

The data collected and arranged in the present volume show few more cases of the same devoicing (Ch **b- > W 2 p-*).

They are as follows:

5. W 2 Ngas *pit*, Mwaghavul *pit* ‘to put out fire, switch off light’, Goemai *pit* ‘extinguish smth’. Cp. Hausa *bíčè* (< *bite*) ‘to go out (lamp, fire), extinguish’.
6. W 2 Mwaghavul *kə-fürüm*, *fürüm*, Ngas *ferem*, Mush *bórùmò* [JgO], Goem *férám* ‘knee’. Cf. W 3: Bol *bùrùm*, Gera *bùrmi*, Geruma *burmù*, etc.
7. W 2 **pwap* ‘kind of antelope’: Gerka *pwup*, Mnt, Goemai, Chip

¹⁰ Cm. Hausa *žii-kí*, Ngas *še-uk*, etc. ‘body’, on *-k-* as a body-part’ marker see [StV].

pap, Mwaghavul *pàap*, Ngas *peep*, Mupun *páap*. Cf. W 3: Galambu *bùbà*, Karekare *bàwi*, Ngamo *bò’i* ‘kind of antelope’.

8. W 2 Goemai *pàap* ‘get hidden or lost’. Cf. W 3: Karakare *bàwu* ‘to get lost, disappear, die’.

9. W 2 Mupun *pú-pwáp*, Mwaghavul *pú-pwáp* ‘fish sp.’, Ngas *buup*, *bwoop* ‘fish’ (Fl, 1915). Cf. C 8 Logone *bwabwa* ‘fish’.

10. W 2 Goemai *bi*, Mnt *be* ‘place’ (Fp, 1911) Goemai *pè* ‘place’ (Hlw, 2013). Cf. W 3: Bolewa *bèyi*, Dera *bòi* ‘place’.

In all other cases Ch **b*- preserves as such in W 2 – languages.

It seems evident, that the initial regularly devoices by assimilation with the final *-p* in reduplicated forms: **bV(w/y)* > *bVbV* > *ngas bVp#* > *pVp* (examples 7-9).

Regressive assim. is also possible by assim. with a voiceless dental in auslaut (examples 2, 4, 5).

Lastly, devoicing may be provoked by a velar prefix (examples 3, 6). The first example, given in [GrL] may also be included in this group. The point is, that cognate forms in CCh languages show a velar prefix: Fali Bwagiry *kù-vun* ‘hut’, Wandala *kú-vre*, Dghwede *ká-viré* ‘cornbin’ (-*n*- > -*r*- is regular).

The following variants: a. Goemai *bi* (1911) ~ Goemai *pè* (2013) ‘place’ and b. Mwaghavul *baa* ‘to go back’ [BlM], *bàa* ‘zurückkehren’ [JgS], but *pà* ‘to return’ [Kr] also point to gradual devoicing in the ngas gr.

It is worth mentioning, that J. Greenberg himself pointed to cases contradicting to the idea of the total devoicing of Ch **b* in Plateau languages (see above).

III. On the origin of *ɸ*, *b* and *v*.

1.a. As Greenberg noted, Goemai/Ankwe “has a phonemic distinction between glottalized (*ɸ*) and non-glottalized (*p*) unvoiced consonants” [GrL: 298]. According to G. Takásc, **ɸ* should be reconstructed for the Proto-ngas-sura level (W 2), but it “retained its emphatic feature only in W 2 Goemanoid languages in initial position” [TAS: XXV]. Note, however, that field data differs quite often in identifying this emphatic, see the following examples:

Goemai *ɸang* ‘stone’ [Srl] ~ *pang* ‘stone’ [Fp], *pay* ‘stone’ [JgN]; Goemai *ɸak* ‘to crash in a mortar’ [Srl] ~ *pak* ‘to flatten’ [Hlw],

Goem *puk* ‘calf of the leg’ [Srl] ~ *púk* ‘Wade’ [Jg],
Goemai *pas* ‘rainy season’ [Srl] ~ *pas* id. [Hlw], etc., for more examples see [TAS: 298-303].

Viewing that a. the thesaurus compiled by E. Sirlinger [Srl] is “based primarily on the Kwo dialect” [ibid. XVIII], b. no trace of *p̪* has been found in perfectly documented languages of the same group, there is no reason to reconstruct **p̪* on the Proto-ngas-sura level.

1b. Languages of the warji group (Warji, Cagu, Mburku) have the same phonemic distinction (*p̪* vers, *p*). A few forms with *p̪*-initial are attested in [SkNB, BlS]. However, the examples so far collected show the following correlation: *p̪* in W 4 - *p* in other Chadic languages - *H-p̪ / p-H* in external cognates.

Cf. Warji *pa-*, Mburku *pu-*, Kariya *paay* ‘to give birth’, CChadic Gude *poo* ‘to give birth’; Eg *p̪p̪* ‘gebären, geboren werden, to give birth, be born’.

2. The distinction between originally voiced and ‘imploded’ (=implosive) voiced consonants is also referred to in [GrL]. The following statement is of special value: “Regarding the distinction between *b̪* and *b*, for which there is at present no support outside of the Chad languages, it is safer to assume, until such evidence is forthcoming that the both continue a single original Proto-Afro-Asiatic phoneme” [GrL: 301f].

A hypothesis concerning the origin of *b̪* in Chadic languages was suggested in [ISv]. The author made a phonological reconstruction of Chadic labials, using data of 12 Chadic languages only (more or less documented at that time). As he wrote, Chadic **b̪* results from ‘compensatory glottalization’, stemming from an original AA root containing **b* and a laryngeal or a glottalized consonant’ [ISv: 20].

This idea can be accepted with one correction, namely: *b̪* does not follow the Proto-Ch level, but developed gradually, in the process of laryngeal lenition in different branches and groups of Chadic languages. Empatization may be traced in a part of languages, or impact different consonants of one and the same Proto-Chadic root. Cf. the following examples:

a. Forms in the masa group: Gizey, Ham, Lew, Musey, Marba, Masa *bó* ‘fleurir’ and in East Chadic: Bidiya *booy*, Migama *bòoyò* ‘fleurir’ follow one and the same PCh form, namely, **bVHWw*, but not **bVw-*

- b. Mofu *-bəd-* ‘laisser la place’ and Kuseri *bada* ‘to abandon’, are ‘true cognates’ to each other and to Arabic and Sabaic *b̥d* ‘s’éloigner’. However, only Ch **bHd* can yield both reflexes, but not Ch **bVd-*.
c. In roots with secondary emphatic consonants we observe the shift of emphatization (eg., **bVķV > bVkV*) in case a language has no *k* in its inventory. However, this shift doesn’t happen in Hausa, warji and kotoko languages (in all of them Ch **k* preserves as such).

3. The voiced labial fricative (*v*) ‘has no support’ outside Chadic family and is lacking in Hausa and in ECh dangla-mubi gr. It is important to note that *v* serves as a positional variant of two Proto-Ch phonemes - **b* and **f*, most regularly – in inlaut (esp., in a secondary inlaut, caused by a prefix, attached to a form with an initial labial). Further loss of the prefix accounts for *v*-initials in various languages (*k-bVC > k-vVC > vVC*, *n-f-s > n -v-s- > v-s-*). Chadic forms of the *v(w)VC-* structure quite often correspond to *wfC* or *HfC* in Semitic languages. Velarization of *b-* and *f-* may be due to assimilation with a laryngeal as C₂: **bVH- & *fVH > vV(H)*, *v*-initials quite often appear in roots of the shape *bin-*, *fin-*, *bu/ir-* and in reduplicated roots: *f/b-c- > f/b-f/b-c- > f/b-v-C -> v-v-C-*.

The structure of individual articles in the main set

The lexical material is organized along the following lines: an asterisked reconstructed form¹¹, then its suggested meaning. The lexical data are arranged according to the branches, and within the branches -- according to groups. Names of individual languages are written with capital initials, while the names of the respective groups - with small ones. The semantics of an individual gloss may be omitted only if it coincides with the common one. The sources are quoted in square brackets (for references by default see p. 239), variants of language-names - in round brackets. After a double slash external parallels are given.

The reconstructed nouns have the shape CV(V), CV(V)CV or CVC(V)CV. Polysyllabic verbs have the shape CV(V)C- or CV(V)C(V)C-, monosyllabic - CV(V) (note that the C-shape does not allow us to mark the vowel length of monosyllabic verbs). In case individual languages mostly show CV or C₁VC₁V (reduplicated) forms, the CV-structure has been reconstructed for Proto-Chadic. In case individual languages show CV, CV'V, CVw(V) or CVy(V)-structures, we preferred to reconstruct a disyllabic verb with a "weak" consonant (?/ w/ y) in the C₂ position. Firstly, it reduced the number of CV and CVV verbs. Secondly, Semitic parallels to Ch CV?/w/y-verbs usually have CVHVw/y or CVw/yVH structure, thus Chadic CV?/w/y- shape for a preliminary reconstruction seems to be reasonable and adequate to the data.

C₁VC₂(V)C₃-verbs are mostly derived from the corresponding C₁VC₂- ones, sometimes - from C₂VC₃- or C₁VC₃-ones. Only a few C₁VC₂C₂- verbs has been reconstructed.

It was intended to make the membership within an entry as undoubted as possible. All kind of derivatives and related words are cited within sub-items (a, b, etc.) or under *Deriv.*, *Cf.* or *Note* (the latter marks a less reliable relation). Semantically identical items may be cross-referenced, in the view of their possible genetic relation .

Semantically identical items may be cross-referenced, in the view of their possible genetic relation.

¹¹ May be preceded by information of the local character of the item (W = attested in the West branch; C 5 = attested in the mandara group only, cf. classification).

Set II includes fragmentary attested Ch forms, mostly - with reliable cognates in Semitic, Egyptian or Cushitic languages. Entries in this set can serve as a basis for search throughout Afrasian languages.

The list of Chadic Languages embraces all Chadic languages whose lexemes are included in the text of the present issue. The names of the groups are written with a small letter, the names of the languages - with a capital one.

As to the membership and a more detailed classification see [Nm, NmC, BlC, BaJg, JgIb, GvCh]. In [BaJg, JgIb] Chadic languages were classified into three major branches: West, Central and East. However, according to P. Newman, the masa group (an integral part of the Central branch in the previous variant) should be classified as one of four branches of the family¹² (in addition to W, C, E).

The body of Chadic roots so far collected shows close affinity of masa data to that of other CCh languages (including some masa - musgu isoglosses). On the other hand, roots attested in West or/and East branches and in masa (and lacking more CCh data) are few. Note also that reflexes of PCh **s*¹³ (> Biu-Mandara **t*, but masa **s*) cannot be taken as a classifying argument Examples and arguments given in [StLat] introduce PCh **s*, not as a PCh phoneme, but as a positional variant of Ch **s*, observed not only in CCh Biu-Mandara, but in WCh 5 as well (for a different solution see [Shy: 41]¹⁴). Thus, in the present volume masa is classified as a group within the Central branch (for similar opinion and more supporting evidence see [TrMs]). In listing groups of languages within the branches we mostly follow the classification and group-supporting numbering suggested in [JgIb]. However, the mandara group (a single unit in [JgIb], is subdivided into two sub-groups (as in [Nm] and [NmC]). Lastly, ECh 5 dangla and ECh 7 mubi groups (in [JgIb]) form a single unit in [NmC]. This innovation, supported by phonological and lexical data, was also accepted in the present volume (as compared to my previous publications, E 5 is referred to as E 5a, E 7 - as E 5b). Note that the classification of R. Gravina differs greatly from [JgIb] and [Nm] (e.g., languages of the ‘big mafa’ gr. (CCh 7) are included into different sub-branches and major groups of Biu-Mandara [GrPh: 26f]).

¹² “I have decided not to include the Masa group in any of the three major branches but rather to consider it as a separate, independent category” [Nm: 8].

¹³ “in addition to **s*, one had to reconstruct another sibilant for PC, for which I have adopted the symbol *s̪*” [Nm 10].

¹⁴ “As P. Newman first noted, the merger of PC **s̪* with PCh **s* provides strong evidence against classification of the masa group as a subgroup of Biu-Mandara”.

Chadic Languages

I. West Chadic

WCh-A

1. Hausa
2. sura-angas: Ngas (Angas), Miship (Chip), Kofyar, Mwaghavul (Sura), Mupun (note Sura/Mupun in [NmC]), Mushere, Goemay (Ankwe), Montol, Gerka (Yiwom)
3. bole: Bolewa, Bele, Galambu, Gera, Geruma, Karekare, Ma(a)ka, Kirfi, Ngamo, Bure, Tangale, Dera (Kanakuru), Kupto, Pero

WCh-B

4. warji (North Bauchi): Warji, Diri, Jimbin, Kariya, Mburku, Miya, Siri, Tsagu; Pa'a
5. South Bauchi: Dott, Wangdai, Geji, Polchi, Buli, Zul, Zaar (Sayanchi), Guus, Guruntum, Tala, Jimi, Boghom, Kir, Mangas
6. bade gr.: Bade, Ngizim, Duwai
7. ron: Bokkos, Daffo-Butura, Sha, Mundat, Kulere (Richa in [RC]), Fyer; also: Mongar, Monguna, Karfa in [RC]

II. Central Chadic

Gongola-Higi

1. tera gr.: Tera, (Pidlimdi dial. of Tera in [Kr]), Hwona (=Hona), Jara, Ga'anda, Gabin, Boka
2. burā: Burā, Chibak, Ngwahyi, Kilba, Margi, WMargi, Wamdiu, Hildi
3. higi : Higi Nkafa, Higi Baza, Fali Kiriya, Bana (presumably = Fali Gili [Kr]), (Higi) Hya, Kapsiki (=Higi Kamale), Higi Futu [Kr].
4. bata : Bachama, Bata, Gudu, Jimjimən, Njanyi (= Nzangi), Tsuvan, Sharwa, Fali of Jilbu, Fali of Bwagira, Gude, Fali of Muchella in [Kr]

Hill

5. wandala: Wandala (Mandara), Malgwa, Glavda, Ngweshe, Podoko, Dghwede, Guduf, Gava, Gvoko, Chikide (dial. of Guduf),
- 5a. Chineni, Lamang, Hitkalanchi, Hide, Vemgo
6. daba: Daba, Musgoy (Mazagway), Buwal, Mina (Hina), Mbedam (Mbədam, Mbudum), Gavar
7. mafa: Mafa, Chuvok, Dugwor, Ouldem, Muyang, Mada, Moloko, Zulgo, Merey, Gisiga , Mofu, Mefe, Balda, Mbuko, Vame, Baka
- 7a. (?) Sakun [Sukur]

Riverain

8. kotoko: Ngala, Makari, Affade, Gulfey Kusseri, Logone (Lagwan, Kotoko), Mazera, Zina (Maltam [Tr]), Buduma
9. musgu: Musgum [LkM], Munjuk, Mulwi, Mbara [Tr]
- 9a.(?) Gidar (Kada)
10. masa (according to [Shy:32]): Zumaya (Azumeina); north: Masa, Gizey (considered a dialect of Masa in [BIC]), Musey, Marba, Lew¹⁵, Ham ("la lingue parlata nel villaggio di Ham, I cui abitanti" [LexC]; south: Mesme¹⁶, Peve, Dari¹⁷, Dzepaw¹⁸, Ngide¹⁹, Hede²⁰.

It is clear that referring any language to as "Zime" provokes misunderstanding (see Notes 5-7). Thus, in the present publication, contrary to [CLD I-IV], Zime Daria will be referred to as Dari, Zime Batna - as Dzepaw.

III. East Chadic

ECh-A

1. kera: Kera , Kwang , dial. Mobu, Ngam [Lns]
2. lele: Lele, Kabalai, Nanchere, Gabri, Dormo (dial of Gabri), Tobanga (Gabri Nord)
3. somray: Somray (Sibine), Tumak, Ndam
4. sokoro: Sokoro, Saba, Ubi, Mawa
- 4a. Barein (dial. Komiya, Giliya, Jalkiya, Janking)

ECh-B

- 5a. dangla: East Dangaleat, West Dangaleat, Central Dangaleat, Migama, Bidiya, Mabire
- 5b. mubi: Mubi, Zirenkel, Masmaje, Kajakse, Toram, Birgit, Jegu (according to [NmC], the last two should be classified within 5a)
6. mokilko: Mokilko.

¹⁵ According to [PAz: II], Marba, Lew and Kulong form an Azumeina dialect cluster.

¹⁶ This name is used in [JgZ], [NmC] and [Kr], but the same language is referred to as: Zime (Mesme) in [Shy 32-33], as Zime in [BIC].

¹⁷ in [NmC, JgZ], but referred to as: Tari in [BIC], Zime in [Shy 48-58], ZimD in [JgIb], Zime Dari in [CLD].

¹⁸ in [NmC, BIC], but referred to as: Batna in [JgZ], Lame in [Sa], ZimB in [JgIb], Zime Batna in [CLD]; according to [Shy 33], "Lame" or Dzepaw in the southernmost dialect of Hede".

¹⁹ in [Shy], but Ngete (Sorga) in [NmC, BIC, JgZ].

²⁰ in [Shy, BIC], but Herde in [JgZ, NmC].

Abbreviations of languages and linguistic periods

Ch -Chadic: Afd - Afade, Azum - Azumeina, Bch - Bacama, Bgh - Boghom, Bid - Bidiya, Bnn - Banana, Bok – Bokos, Bol – Bolewa, Brg – Birgit, Bud - Buduma, C - Central, Ch - Chadic, Chb - Chibak, Chk - Chikide, Chn - Chinene, Chuv - Chuvok, DB - Daffo-Butura, Dng - Dangla, Dghw - Dghwede, Duw - Duwai, Dzpw - Dzəpaw, E - East, FB - Fali Bwagira, FG –Fali Gili = Bana, FJ - Fali Jilbu, FK - Fali Kiriya, FM - Fali Muchella, Gaa – Gaanda, GBade – Gashua Bade, Gbn – Gabin, Gdf – Guduf, Gdr – Gidar, Gis – Gisiga, Glm - Galambu, Goem - Goemay, Grk - Gerka, Grm – Geruma, Grnt - Guruntum, HB - Higi Baza, HF – Higi Futu, HGh – Higi Ghye, HN –Higi Nkafa, Hld – Hildi, HN - Higi Nkafa, Hs - Hausa, Hitk - Hitkalanchi, Jmb - Jimbin, Jmj – Jimijimen, Kaba - Kabalai, Kap - Kapsiki, Kar – Kariya, Klb – Kilba, Krf – Kirfi, Krkr - Karekare, Kul – Kulere, Kus - Kusseri, Kwn- Kwang, Lmn - Lamang, Log - Logone, Mghv - Mwaghavul, Mig - Migama, Mlg - Malgwa, MM - Masmaje, Mng – Mangas, Mnj - Munjuk, Mnt - Montol, Mok- Mokillo, Mol – Moloko, Mpn - Mupun, Mrg - Margi, Msg – Musgu, Mush – Mushere, Muy - Muyang, Mwl - Mwulyen, Nch - Nanchere, Ngm - Ngamo, Ngz - Ngizim, Nzn – Nzangi, Ould - Ouldem, Pod – Podoko, Plc - Polchi, S - South, Saya - Sayanchi, Skn - Sakun, Sok - Sokoro, Smr - Somray, Tng - Tangale, Tob - Tobanga, Tor - Toram, Tum - Tumak, W - West, Wrj - Warji, Wnd – Wandala.

Berb –Berber: ACE –Algérie centrale [NZ: XX], Ahag - Ahaggar, Awj – Awjila, Ghdm - Ghadames, Izns – Iznasen, MC – Maroc central [NZ: XX], Nef – Nefusa, Nig – dial. of Niger, Qab - Qabyle, Sen - Senhaja, Shin - Shinasha, Sghr - Seghrushen, Tawl –Taulemet, TIM – Touat, Tidikelt, Wlmd – Wlemden, Wrgl – Wargla, Zng – Zenaga.

Sem – Semitic: Akk - Akkadian, Amh - Amharic, Arab - Arabic, Aram - Aramaic (Bib - Biblical, Imp - Jud - Judaic, Mand- Mandaic, Off –Official, Syr - Syriac), Eth – Ethio-Sem, Gaf - Gafat, Gur - Gurage, Hars - Harsusi, Hbr - Hebrew, Jib -Jibbali, Mhr - Mehri, MSA - Modern South Arabian, Phn - Phoenician, Pun – Punic, Qat – Qatabanian, Sab - Sabaic, Soq - Soqotri, Tgr - Tigre, Tna - Tigrinya, Ug – Ugaritic.

Cush –Cushitic: HECush – High East, Alg - Alagwa, Arb - Arbore, Bur - Burunge, Dah - Dahalo, Dob - Dobase, dull – dullay, Gaw – Grawata, Goll –Gollango, Gor - Gorowa, Had – Hadiya, Irq - Iraqw, Kamb - Kambata, Ong – Ongota, Rend –Rendile, Sid- Sidamo, Som - Somali, Tsam - Tsamai (Tsamako), Das – Dasenech.

Eg – Egyptian.

Om – Omotic: Wolt – Wolaita, Shin – Shinasha, Yem –Yemsa.

Linguistic periods: Bab - Babylonian, Gr - Egyptian texts of Greco-Roman period, MA - Middle Assyrian, Med - Egyptian medical papyri, MK - Egyptian texts of the Middle Kingdom, NB - Neo-Babylonian, OA - Old Assyrian, OAk - Old Akkadian, OK - Egyptian texts of the Old Kingdom, pB - post-Biblical, Pyr - Egyptian texts of the pyramids, Sarg - Egyptian texts inscribed on sarcophagi, SB - Standart Babylonian.

Abbreviations: adj. - adjective, adv. - adverb, assim. - assimilation, Caus. - Causative, coll. - collective noun, denom. - denominative, deriv. - derivative, dial. - dialect, dissim. - dissimilation, esp. - especially, gen. - general, gr. - group, idf. - ideofon, intr. - intransitive, irreg. - irregular, metath. - metathesis, obj. - object, pl. - plural, plurac. - pluractional, poss. - possessive, pr. - pronoun, pref. - prefix, redupl. - reduplication, regress. - regressive, sg. - singular, sbj. - subject, suff. - suffix, tr. - transitive, vers. - versus.

Conventional signs

Glottalization is rendered with a dot under the letter: *t*, *s*, *k* or (due to technical problems) with a quotation mark: *ts'* (alveolar sibilant affricate), *č'* (palatal affricate).

Chadic voiced implosive phonemes are noted as *b*, *d*, *dy* (in previous publications - *b*, *d*, *dy*).

Palatalization is noted with a hacek - *š*, *č*, *ž*.

Lateral fricatives are noted as *t* (voiceless), *ł* (voiced), the way it is done in the majority of publications on Chadic languages, *t'* (emphatic).

Voiceless velar fricative is noted as *x*, its voiced counterpart - as *y*, voiceless laryngeal - as *h*, its voiced counterpart as *ħ*. Voiced pharyngeal is rendered as *ʕ* (Arabic **غ**), voiceless - as *ħ* (Arabic **ح**), uvulars: voiceless *ħ* (Arabic **خ**), voiced *ğ* (Arabic **ڻ**). Glottal stop is noted as *ʔ*, but as *?̄* in asterisked forms.

Velar nasal - *y*, semivowels: *w*, *y*.

Long vowels are rendered by a double sign *aa*, open vowels *e* and *o*.

The following notation of tones is generally accepted for Chadic languages: *á* - high, *à* - low,

middle tone is either marked as *ā* or left unmarked (for example, in Hausa). In [Kr], R.Shuh and some other dictionaries only one of the two tones is marked (*á*), but low tone is left unmarked (*a*). In the present text we follow the notation of the sources (without any decoding).

*B

1. *b[ə]y- ‘**to go, to pass**’: W 1 Hs *biyà* ‘to go, travel’; 4 Jmb, Miya, Mburku, Kar *ba-*, Tsagu *bə-* ‘to go’ [SkNB], Miya *ba* ‘to go’ [Sch]; C 4 Gudu *bøy* ‘to follow’ [Kr]; 7 Mada *ábà* ‘passer’; E 1 Mobu *be* ‘escorter’; 2 Tob *bà* ‘aller’, *bè* ‘accompany’; 4 Sok *baa* ‘gehen’, *baiba*, *bēe* ‘vorübergehen, to pass by’ [Luk]. Note C 6 Daba *vàa* ‘aller’; 9 Mulwi *vi* ‘aller’ (probably, <-vV< vVvV< bVvV< bVbV).

C *mbV ‘to follow’: 1 Tera *mbú* [NmT]; 6 Mol *mbay* [FsM].

//Cush Beja *baay* ‘gehen’ [RBd], Om Wolt, Dawro, Gamu *b-* ‘to go’, Yemsa *bey* ‘leave’ [LmW: 311]. Cf. Sem Geez *bebaya* ‘go around, roam aimlessly, lust after’, *beba* ‘go around’ [LsG: 86].

a. ***ba[w]- ‘to go out’**: W 4 Jmb *mba*, Siri *ba*, Miya, Kar, Tsagu *boo*, Mburku *baa-* ‘to go out’ [SkNB], Paa *mbá* to go out, germinate’ [MS], Miya *baw* ‘to go out, sprout’ [Sch]; C 2 Mrg *bà* [HfM: 22], Klb *bìyà* ‘to go out’ [MuK], 7 Mofu *-b-* ‘sortir, quitter’, Gis *be* ‘hinausgehen’. Derived noun: W 2 Goem *bo* ‘journey’ [Fp]; 6 Ngz *bùwà* ‘traveling, trip’, GBade *bìwà*, WBade *bìwān* ‘a trip’.

//Cush Burji *ba-* ‘to go out, appear, rise (sun, moon)’ [SsB], Afar, Oromo *baa* ‘fort-, weggehen, to go away’ [RA], Oromo *ba'a* ‘go out’ [Grg], Sid *ba²-* ‘to out, away’ [LmW: 311].

Cf. №3 ***baw/y-** ‘**to grow, germinate**’. The latter is hardly cognate with ***ba[w]- ‘to go out’**. Likely, reflexes of two separate roots conflated in W 4 Paa and Miya.

2. *baw/²- (or ***bVwV²-**) ‘**to come, return**’: W 2 Mpn *bàa*, Mnt *ba* [Fp], Ngas *bèe* [JgN] ‘to return’, Mghv *baa* ‘to go back’ [BlM], *bàa* ‘zurückkehren’ [JgS], note *pà* ‘to return’ [Kr], Goem *bà* ‘to return (to somewhere) [Hlw]; 4 Wrj *buw*, Jmb *boo*, Miya *bu*, Kar, Mburku *buu*, Tsagu *boo* ‘to come’ [SkNB], Miya *buw* [Sch]; 7 Kul *bo* ‘to come’ [JgR] = Richa *bo* ‘to come’ [RC]; C 2 Tera *ba* ‘come’ [Kr]; 4 Gude *bu'u* ‘to arrive’; 5 Wnd *ba-* ‘to come’ [WfN]; E 1 Mobu *báyé* ‘entrer’, Kera *bì* ‘to come’; 4 Sok *óbee* ‘to come’ [Luk]. Cf. C 2 Mrg *bèbù*, *bù* (< bVb- < *bV'bV²-) ‘to walk’ [HfM: 23], E 5a MM *bo* ‘aller’.

//Sem Akk *bâ'u* from OA, OB on ‘to walk along, come in, come to meet’ [CAD b: 178], Ug *b²* ‘to enter, come, reach’, Hbr *bw²* ‘to enter, come’, Phn, Pun *b²* ‘to go, enter’ [DUL: 200], Sab *bw²* ‘to enter’ [Bl: 11], Arab *bw²* ‘revenir, retourner’ [BK I: 175], Geez *bw²* ‘enter,

penetrate’, Tgr *bo²e*, Tna *bo²a* ‘enter’, etc. > Cush Beja *bi?* ‘return home’ [LsG: 114f]. Cf. Geez *məbwā?* ‘entrance, coming’.

b. ***m-ba(w/y)- ‘to return, come’:** W 2 Mush *mbáa* ‘to return, come; to have done alredy’ [JgO], Ngas *umbai* ‘to return’ [Or], 4 Paa *mbu* ‘to arrive, reach’ [MS]; C 7a Skn *baave* [mbəva] [DS] ‘to return’, *mbá* ‘to return, to turn’ [ThS: 408]; 10 Gizey, Masa *mà*, Lew, Musey, Ham, Marba *mbà* [LexC], Masa *mba*, Peve, Hide *mbu* ‘to come’ [Shy], Azum *mbeyu* ‘to come here’, Dzpw, Dari *mbù* ‘venir, apporter’ (‘to come with’).

c. ***bVh** (possibly <*b²h-*) **‘to arrive, to come’:** C 1 Boka *be-dî* [Kr], Tera *ba* [NmT], Gaa *bà-* ‘to come’ [MN]; 5a Hdi *bəhay* ‘to arrive’. //Cf. Sem Sab *bh?* ‘entrer, penetrer’ [SD: 27].

[JgIb **b-* ‘come’, Coh: 176, Gr: 54, AA I №143, HSED №157].

3. *baw/y- ‘to grow, germinate’: W 4 Miya *baw* ‘to go out, sprout’ [Sch], Paa *mba* ‘to go out, germinate’ [MS]; 7 DB *bô* ‘to grow’ [RC]; C 8 Log *bo* ‘hervorschiesßen, aufwachsen’ [LkL], ‘to germinate, sprout’ [ALL]; 9a Gdr *bày* ‘to grow’ [FrG].

Deriv.: W 7 Bok *"bày* ‘gross’ [JgR], ‘big, large, great’ [RC]. Cf. C 7 Zlg *bàba* ‘grand’; 10 Dzpw *bá* ‘grand’

4. *ba(?)- ‘to build, create’: C 5a Lmn *ba* ‘to build, erect’ [Wff], Hdi *bay* ‘constuire, bâtir’, Hittk *b-* ‘bauen’; 6 Buwal *bā* ‘to create’; 7a Skn *ba* ‘to build’; 8 cf. Bud *ko-bay* ‘to build’ [LkBd]; E 1 Kwn *bày* ‘to build’ [JgIb], Ngam *bày* ‘construire (une maison)’, Mobi *báyé* ‘construire’; 3 Smr *bì* ‘to build’ [JgIb]. Cf. C 10 Mus *mbu-ra* ‘construire la route’ [Sch].

Cf. W 3 Bol *báyi* ‘building for the servants or slaves of the emir’ [IbG]. Cf. [HSED №252].

5. *bV?(y)- ‘to cut, chop’: C 6 Mbedam *bə* ‘to cut’ [NdP]; 10 Dzpw *bò?ò* ‘abattre’; E 1 Kwn *bàyī* ‘to cut, chop’ [JgIb]; 6 Mok *bóyé* ‘tailler (arbre); se raser’.

Derived nouns: W 7 Monguna *àbáy* ‘sickle’, Mundat *ábáyà* ‘machete’ [RC]; C 3 cf. FK *mbùà-tà* ‘sickle’; 7 Mofu *bebéy* (redupl. < *bVbey* < *bV²bV²-*) ‘faucille (avec un manche en bois)’.

//Berb Shilh *bbi* ‘couper, être, déchirer, être’, MC *bbey* ‘couper, circoncire’, Shawiya *bbi* ‘couper’, TIM *bbi* ‘couper, casser’ [NZ:]

143]. Cf. Sem Geez *nabawa* ‘split’, Amh (*a*)*näbbäbä*, Gur *näbba* (from *nb?*) [LsG: 384]. Cf. ***bVHVy/w-** > **bii/buu** ‘to cut, split’

6. *bV?- ‘to pierce, to hole’: W 3 Bol *b(a)* ‘einrammen, einschlagen’ [LkB], Krkr *baa* ‘to implant (a tying post), to pound in a nail’ [GK]; C 6 Daba *būh* (pl.?) ‘percer’, Buwal *bav* ‘to make a hole’; 8 Log *bāa* ‘durchlöchern’ [LkL], ‘planter, percer’ [ALL], Makari *bo* ‘to pierce’, *bi* ‘to have a hole, être troué’; Kus *bo ho* ‘percer’, *bo sime* ‘percer les oreilles’ [Al], Bud *bíihu*, *bíyú* ‘durchbohren, durchlöchern; to pierce, hole’ [LkBd]. Cf. C 2 Mrg *mbù* ‘to sew’ [HfM: 21].

Derived noun: ***biy-** ‘hole’: C 7 Zlg *bíye*, Ould *āvi* ‘trou’; E 5a WDng *bée* ‘trou en terre’.

Redupl. C **bVb-* > *bVv-* ‘well, hole’: 9a Gdr *vóvu* [Mo: 18].

For C 8 Log ‘planter’ cf. C 5a Lmn *mbébé* (<*mbe?be*) ‘planting stick’ [Wff], Hdi *mbibí* ‘wooden tool for planting’.

//Sem Akk *bī'u* MA, SB, NA (*bību*) MA, NA, pl. *bībū*, *bībānu* ‘drainage, opening (in a wall)’ [CAD b: 297], NSyr *būyā* ‘trou, caverne’ [DRS: 50]. Cf. [HSED №272].

7. *bVy?/- ‘to bury, dig’: 3 Gera *mbii-mí*, Glm *mby-áalà* ‘to bury’ [SchB]; 7 cf. Kul (Richa) *bùy* ‘to bury’²¹ [JgR], Mundat *bùy* ‘to dig’ [RC]; C 8 Log *ba* ‘to dig (a well)’ [LkL].

Derived noun ***baw/y-** ‘pit’: W 3 Tng *ba* ‘hole, pit, opening’, *ba am* ‘waterhole; hole water’, *ba síndi* ‘anus, hole-dirt’, Bure *bòowó* ‘hole’, Gera *bùwá*, Glm *bò àmá* ‘well’ [SchB]²²; C 9 Mbara *vwàyáy* (*vw-* < *bw-*) ‘puits’.

Redupl. W 3 Kupto *bàabà* ‘dying pit’; E 6 Mok *báabè* ‘pond’.

//Sem Arab *bwb* (*bāba*) ‘creuser un trou en terre’ [BK I: 176], SCush Irq *baa'a* ‘pit (square, for hunting or grave)’ [MMQ], Gor *baa'aa*, Alg, Bur *ba'a* ‘pit’ [Kies], ECush Oromo *boyii* ‘ditch’ [Grg].

[Cf. HSED №158-9 **ba/i?-* ‘hole, pit’, **ba/u?-* ‘to dig, hoe’].

The next root is rather cognate:

a. *(m)bV?/w- ‘to hoe, cultivate’: W 4 Diri *mba'a* ‘to hoe, cultivate’ [SkNB]; 7 Sha *bù* ‘den Boden lockern’ [JgR]; C 2 cf. Bura *buba* ‘to itch, scratch’ [BLB]; 6 Mbedam *émbaw* ‘to cultivate’ [LMb]. //ECush Oromo *bo'o* ‘furrow’ [Grg].

²¹ Kulere *buy* is hardly cognate with Fyer, Bok, DB *bur* ‘to bury’.

²² For W 3 ‘well’ cf. TN №130.

8. **bV?Vy-* ‘to blow, to winnow, to dry’: W 3 Krkr *bìyu* ‘to dry up, blow’ [GK], Krf *bii-*, Glm *by-* ‘to dry up’ [SchB], Bol *buyu* ‘to blow’ [GAB], *buy* ‘to winniw’ [LkB, IbG], Ngm *buy-* ‘to winnow (with calabash)’ [IbN]; 5 Zar *vuu* ‘to blow’ [CrZ]; C 4 Gude *bu'u* ‘to winnow grain’; 7 Mada *évè* ‘souffler’; 8 Kus *bo* ‘to blow (of wind)’ [AlK]; E Mawa *boyoy* ‘souffler’, Sok *bóyo* ‘blasen’ [Luk]; 6 Mok *báà'á* ‘siffler, souffler’.

For WCh ‘to dry’ see E 5 EDng *bàybìyē* ‘faner’.

Derived nouns: C 5a Lmn *mbúwá* ‘long wooden flute with 4 holes’; 8 Log *mbáia* ‘Pfeife, pipe’ [LkL].

//Cf. Cush Sid *bubbe* ‘wind’ [KS: 81].

9. **bV(V)y-* ‘to burn, to boil’: W 3 Kupto *bàabéy* (redupl.) ‘to burn, roast’; 5 Zul *bo'i* ‘to roast’ [Cs №872]; C 2 Klb *bwà* ‘to boil, cook’ [MuK]; 7a Skn *boey* ‘to boil’; E 5 Mig *bìyyò* ‘griller, rôtir’.

Cf. E 3 Smr *bàbà* ‘rôtir’, *bwə* ‘griller’ [JgSib].

Derived noun: W 4 Paa *bubau*, *bubo* ‘heat (as in fire)’ [MS].

C **m-/-bVy-* ‘to make fire, to light’: 2 Mrg *mbù* ‘to make (fire)’ [HfM: 30], Bura *mba* [BIB], Chb *mba* ‘to burn’ [HfC]; C 5 Mlg *mba* ‘Feuer anzünden’, 7 Baka *bày* ‘allumer’ [BAS]; 10 Dzpw *bá* ‘allumer’, Mus *boo-ra* ‘illuminer, éclairer’; E 4 Mawa *booyo* ‘allumer’.

Derive noun. C 1 Tera *bai* ‘fire’ [NmT], cf. Hona *biba-t*, Gbn *bebè*, Boka *bwebwe* ‘hot’ [Kr].

For a possible derived noun cf.: C 10 Dzpw *bafé*, Dari *bā'fē* ‘pierre à feu’.

//Eg *nby* (Pyr) ‘brennen’, *nby* ‘Flamme’ [EG II: 244], Cush Sid *bub-* ‘to burn’ [KS: 55].

10.bV%y-* ‘to put down, lie down; throw down’:** W 3 Tng *buube* ‘to push down, throw’; C 4 Gude *baa* ‘to lie down, sleep’; 5 Dghw *bayà* ‘to put down’ [Kr]; 7 Baka *bah* (pl. obj.) ‘poser, placer’, *mé-bèhé* ‘to put down’ [BAS], Mofu *bá?* ‘jeter violemment à terre’; 10 Dzpw *bó'ó* ‘tomber’; E 1 Kera *bàawè* (< **ba'aw-*) ‘zu Boden werfen’; 2 Lele *báá*, Kaba, Nch *-ba* [HmK], Tob *bà* ‘tomber, se poser’, *bè* ‘mettre, poser’ (for *bāgà* ‘mettre, poser’ (pl.?) see №82); 3 Smr *bwà* ‘mettre, verser’ [JgSib].

Deriv.: C 7 Mada *mmbéh* ‘bas, peu élevé’, Muy *mbēx* ‘low’.

//ECush Oromo *bu'a* ‘fall, go down’ [Grg], Tsam *bi'i* ‘fall’ [ATO].

For a metath. cf. ECh **Vb(Vw)*- ‘to fall’ [CLD V №3].

11. **bVy/w*?- ‘to lose, get lost, spoiled’: W 2 (redupl.) W 2 Goem *pàap* ‘to get hidden or lost’ (regular devoicing in redupl. forms) [Hlw]; 3 Krkr *bàwu* ‘to get lost, disappear, die’ [GK], Dera *bòi* ‘to spoil, to get lost’ [NmK], Kupto *bùyò* ‘to be lost, to suffer’; C 5a Hitk *biú* ‘nicht vorhanden’; 7 Mada *ábwà* ‘se perdre, mourir’; 9 Mbara *bàa*, Mnj *bi*, Mlw *bi* ‘perdre’; 10 Masa *bà* ‘perdre’ [CC], cf. Azum *bai* ‘without’; E 1 Kera *bìʔi* ‘verderben, zerstören’.

//HECush **ba*?- ‘to be lost, spoil’: Had *bi*-, Gede’o, Kamb, Sid *ba*-, Burji *be*-, *bay*- [Hds]; Som *ba’ay* ‘be, become spoiled, be wiped out, destroyed’ [LIS], Bilin *bi* ‘lack’ [RB], Arb *baabi*?- ‘disappear’ [Hay], Alaba *ba*-, Afar *bay*- ‘get lost’, Om Wolt *bay* ‘get lost’, Zaysse, Dawro *bay*- ‘be lost’, Basketo *baa*- ‘be absent’, Gamu *baa-wa* ‘there is not’, Basketo *baa*- ‘be absent’ [LmW: 326], Berb Ahag *aba* ‘ne pas être, être mort’ [NZ: 6].

The next verb may be cognate (a derivative?)

a. ****mbVy/w*?- ‘to finish’:** W 4 Paa *ba*, Mburku *mbaa*, Kar *mbiy*, Tsagu *buu* ‘to finish’ [SkNB], Miya *mba*, pl. *mbàhiy* ‘to finish’ [Sch]; C 4 Bch *mbo*, Bata *mbi-t* [Sk], Nzn *bwe’e*, Gudu *mbáʔà-n* ‘to finish’ [Kr].

Note Hs *báa*, *bàa*, Krkr *bai*, Mol *bay*, Gdr –*ba*, etc., ‘negative particle’ in Chadic and Eg *by*, *bw* Nä ‘Negation’ [EDE II: 177], Dolg: 39 (Cush, Om, Eg, Ch *ba(y)* ‘no’, the same in AA 2 № 146 **b8* ‘negation’).

12. **bVw/y*- ‘to weed, clear (of vegetation), tear off’: W 7 Sha *mbù* ‘jäten’ [JgR]; C 7 Mofu -*buw*- ‘effeuiller, ébrancher, cueillir’, Muy *ábày* ‘to clear out, clear smth of vegetation’. Cf. E 1 Mobu *bé*, Ngam *bèe*; 3 Smr *bàyà* ‘enlever’ [JgSib].

a. **bi’(V)y*- > *bi* ‘to tear off’: 8 Log *mbo-wun* ‘to pick, pluck (fruit)’ [AIL], Kus *bia* ‘pick, pluck (fruit)’ [ALK]; 9 Mbara *bì* ‘déchirer’; 10 Dzpw *bé* ‘cueillir; décocher, déblayer’, Dari *bīē* ‘cueillir’.

//SCush rift Irg *buu*? ‘to harvest, reap’ [MMQ], Irg, Alg *bu*?- ‘to harvest’ [Eh: 141], Berb Nef *ebbi* ‘ramasser, cueillir, récolter’, Mzab *bbi* ‘prendre et emporter, cueillir’ [NZ: 143f].

The following root may be cognate (pl. in –*h*-?):

a. C ****bah(w)*- ‘to pull, tear’:** 3 Bana *mbàxà* ‘tirer, trainer, arracher brusquement’ = FG *mbàxiy-ti* ‘to pull’ [Kr]; 6 Mina *boh*- ‘to tear out’; 7 Ould *bàh* idf. ‘action de déchirer qqch’.

//Sem *bahiy-* ‘être vide (se dit d’une maison)’, être déchiré (se dit d’une tent)’, *bhw* II ‘déchirer, mettre en lambeaux’ [BK:174].

13. C *mbVw- ‘to cover, hide’: 2 Mrg *mbū* ‘to hide’ [HfM:21], Klb *mbáù* ‘to tie wrapper’ [MuK]; 3 HB *mbùyu-* ‘to hide’ [Kr], FK *mbué* ‘to cover’, Bana *mbá* ‘to hide’ [Hof]; 5 Pod *mba* ‘fermer, couvrir’, *mbáwa* ‘to cover over’, 5a Hdi *mbuway* ‘to sit on eggs’; 6 Mina *mbe* ‘to close’ [FrJ], 7 Mafa *mb-* ‘recouvrir d’une peau (tambour)’, Muy *ámbùwāy* ‘to cover roof with tin, cover with cement’.

Derived noun: W 3 FK *mú-mbá* ‘a cover’; 4 Gude *báyà* ‘loin covering of beads or leather’; 5 Pod *mbaya* ‘étui’; E 2 Lele *báyó* ‘bouclier’.

a. C ***mbVhVw- (pl.?) ‘to wrap, cover over’:** 2 Bura *mbuha* ‘to close, cover the mouth of a vessel’ [BlB]; 6 Buwal *"bòxw* ‘to wrap up corpse’, cf. Mina *kə-mbohoy* ‘to wrap’ [FrM].

b. E 5b Mubi *bàbé* ‘couver (des œufs)’ [JgM], and Ngas *búp* ‘to cover up (shameful or false acts)’ (compensatory redupl.)²³, follow Ch **hVb-* ‘to cover, sit on eggs’ [CLD V №104].

14. *bV ‘riverine water’: C 2 Bura *bu* ‘water of the main stream’ [BlB]; 4 Bata *mboy*, Jimj *bii* ‘water’ [Mo: 16], Nzn *bii*, *mbii*, *mbi'i* ‘water’ [Kr]; 9 Msg (dial) *ba* ‘river’ [Bn]; E 3 Tum *bā* ‘rivière’ (if not <**bar#*).

Deriv. W1 Hs *báyii* ‘watering of horses’. Cf. [HSED №243].

Note W 6 WBade *bàwā-n* ‘water spirit’.

//Sem Akk *bâ* ‘water’ syn list, foreign word [CAD b: 1], Cush Beja *ába* ‘river’ [RBd], ECush Som *biyo* ‘water’ [LIS], Rend *béy* ‘river (permanent or perennial)’ [PG], HEC **bu'e-* ‘spring of water’: Had *bu'o*, Sid *bu'e* [Hds].

a. ***?ambiy-** ‘water’ (pl.) possibly, <**?abbVy-* (note, however: W 4 **m-/a-bi*): Kar *abi*, *aabi*, Mburku *bi*, Siri *ibi*, Jmb *imbi* ‘water, rain’ [SkNB]; Miya *ábiy* [Sch] ‘water’, Paa *ámbii* ‘water’ [MS]; C 10 Ham *mbéé*, Musey *mbòó*, Lew *mbò*, Marba *mbiyó* ‘water’, Marba *mbiyó àlò* ‘rain’ (‘water’ + ‘God’), *mbáyà* ‘pluie continue’, Ham *mbéé čil* ‘rivière’ [LexC], Musey *mbòó-naa*, Marba *mbyo-na*, Peve Hede *mbi* ‘water’ [Shy], Dzpw *mbì* ‘eau; jus’, Dari *mbì* ‘eau’, Azum *mbi-na*, *mbo-na* ‘water’ > river, watery pass’ [LexC], note also Dzpw *mbì* ‘puits’. Cf. Sem Arab *'abāb-* ‘vague, flot; grande masse d’eau’ [BK I: 2].

²³ On ‘compensatory reduplication’ in Chadic languages see [GrPh: 63].

Denominal verb ***bVy/w-** ‘to sprinkle, pour (water), to weep’: W 3 Bol *bàayu* ‘to sprinkle (water with mouth, hand)’ [GAB]; W 4 Siri *biyi*, Kar *biy* ‘to weep’ [SkNB], cf. Wrj *wuwə-* (possibly, assim. <*buwə* < **bwy*); C 2 Bura *biuu* (idf.) ‘sound of water as poured on ground’ [Ann]; 7 Mafa *buw-* ‘verser (liquide)’; E 2 Lele *bòy* ‘verser, couler’; 3 Smr *bwà* [JgSb] ‘verser’; 4 Barein (dial.) *bii*, *bíi* ‘to draw (water)’. Note C 7 Mol *bah* ‘to pour’ (pl. in *-h-*?) [FsM].

Cf. C 7 Mada *évvè* (<*ebwe*) ‘bruine, pluie légère qui dure’. //Cf. Sem Akk *abbu* ‘washout caused by river’ SB [CAD a₁: 47], SCush Dah, Alg *bu?* ‘to pour’ [Eh: 142], Oromo *booya* [Grg] ‘to weep’.

Redupl. C 7 Muy *ábábā* ‘to pour water out’, Chuv *mévèvèy* ‘couler’; E 5a EDng *bóobé* ‘transvaser, verser avec la jarre sur l’épaule’, Mig *bóobó* ‘vider l’eau d’une grande jarre ou d’une bouteille’.

The following forms may be cognate:

***bV?Vy-** ‘to wash’: W 3 Krf *bi?y-* [Stl], Bure *bi?-* ‘to wash’, Kupto *m-bù'yéy* ‘to rinse the mouth’; 6 Ngz *vìyú* ‘to wash’.

Cf. [CED №15].

15. *ba?y- (possibly, <***ba?Vy-**) ‘back’: W 1 Hs *báyáa*; 3 Bol *boy*, Krf *bíibí*, Krkr *bái*, Ngm *bèy*, Maka *boy*, Glm *bi*, Dera *bii*, Tng *pii* [JgIb, SchB], Kupto *fii*, Bure *bíibé* ‘back’ (cf. Dera *bíi šóowí*, Ngm *bèi rō*, Bol *boi rewe* ‘bark of tree’, i.e. ‘back of a tree’ [GAB]), Maka *bóyí* ‘behind’; 7 DB *bi* [JgR], *fi*, Bok *tákfay* ‘behind’ [RC]; C 4 Gude *ba?á*, Nzan *bii*, Bch *be-to*, Bata *be-tiye* [JgIb], Gudu *bia* [Meek]; 7 Mafa *báaba*, *ba* ‘back’; E Kwn *tàwá* [JgIb] (possibly <**ta-ba*, cf. Kaba *tàbà*, Kwn *tòw* ‘sun’ [JgIb] <**ta-?ab-*< **Ch *?ab-** ‘sun’ [CLD V №4]). Deriv.: E 1 Kera *bày* ‘auf den Rücken liegend’, W 3 Ngm *bèbèy* ‘backwards’ [NEH].

a. C **10 *bV?y-** ‘bosse’: Dzpw *bù?* ‘bosse’, Gizey, Masa *bìyàw*, Ham *bèw* ‘bosse d’un boeuf’ [LexC].

[JgIb **b-y* ‘back’, cf. HSED №251].

//Cush agaw Hamir *baw-* ‘carry on the back’ [ApAg], SCush rift **?ubaab* ‘to carry a child on the back’ [Kies], Berb **bVbb*: Qab *bibb* ‘porter sur la dos; se charger d’un fardeau’, Ahag *bubbu*, Shenwa *abba* ‘to carry (a child) on one’s back’, etc., Ghad *ebb* ‘to (trans)porter’ [NZ: 5f]. Note: W 3 Maka *bàmbáayò* [SvP], Kupto *bàmmbéy* ‘to carry on the back (esp. a child); to support (a child)’ (< Berb?),

16. *baw/²- (*ba?Vw-) ‘upper arm’ > ‘wing’: W 3 Dera *búwà* ‘arm, lower arm’,²⁴ [NmK], Bol *mbàa* ‘upper arm, wing, branch of tree’ [GAB], Ngm *mbàá* ‘(upper) arm’ [NEH] (*m-* may function as a body-part’ prefix); 5 Grnt *bau* ‘wing’ [Cs]; C 4 Gude *bù-bù'wá* ‘wing’; C 9a Gdr *vo* (< **bwa*) ‘bras’ [Mo: 31]; E 2 Lele *bāwā* ‘aile, epaule’, Tob *kō-bā* ‘main’; 6 Mok *béy* ‘arm, hand, front leg’.

C 7 Mwl *bibi* ‘wing’ and 8 Bud *bibi* ‘Oberarm’, rather < Kanuri *bibí*. //Cf. Cush Beja *biy*, *buuy* ‘Glied’ [RBd], Oromo *bu'aa* ‘limb’ [Grg].

Redupl. ***ba-ba** ‘shoulder(s)’: W 2 Kofyar *bàb* ‘shoulders, horizontal part’ (apud [TAS:11]); C 8 Makari *baba* ‘shoulder blade’ [ALM].

For a possible derivative cf. C 10 ‘chauve-souris’: Dari *bābāy*, Gizey, Ham *bàybáy*, Masa *bàybày*, Musey *pàpày*, Lew *?àbèbèy*, Marba *?àbìbèy* [LezC].

//Eg *bb.wj* ‘die Schlüsselbeine (claviculae)’ Med [EG I: 455]. For Eg-C 8 Bud ‘shoulder’ see [AA 2 №138], for Eg-Kfy see [TN: 2].

17. *baw/y- ‘man’: C 8 Bud *bi* ‘männlich’ [LkBd]; 10 Dari *bày* ‘ami’, Masa *ba* ‘frère’ [Mo: 49]; E 1 Kera *àbày* ‘jeune homme’; 2 Lele *bā*, pl. *ba-ngnwe* ‘homme’, Kaba *ba* ‘man’ [Jglb], Nch *ba* ‘homme’ [HmK]; 3 Smr *?àbé* ‘man’ [Jglb], 4 Sok *boo* ‘Mensch, jemand’ [Luk], Mawa *bo* ‘homme, être humain’, Ubi *bò* ‘personne’ [Alio].

a. W 3 ***biy-** ‘people’: Ngm *bìyà* (pl. of *ngò*) ‘people’ [NEH], Bol *biya* ‘people, people of...’ [GAB]. Cf. [TN №№143, 383].

Cf. C ***ba** ‘body’ > **na-ba** > **nava** > **va** ‘(my) body’/ **ya-ba** > **ya-ra** > **va-ya** ‘your body’: 1 Tera *va* [NmT]; 3 FK *và*, Bana *výà*; 5-5a Lmn *yòvà*, Wnd *wvà*, Glv *vayá* Dghw *vágà* [Jglb], Hdi *vaya* ‘body’ (*ya* ‘you’), Pod *na-va*, Mlg *víwe*; 7 Zlg *bá*, Muy *vú*, Mafa *vâ*, Mofu *vòw*, Ould *vò*, *slu vo* (*slu* ‘meat’), 7a Skn *vø-d*.

18. *baw/y-k/t- (also ***k-bVy-**) ‘mouth, opening’ (with a body-part suff.): W 1 Hs *bàà-kii* ‘mouth, opening, entrance’; 2 ***k-paw-k** < **k-baw-k**: Mghv *poo* ‘mouth, opening, word’ [BlM], Mnt *ka-pur*, Grk *pa-k* ‘mouth’ [Fp], Mpn *piò* ‘mouth, word, language’, Chip *pwò* [JgC], Mush *poo* [JgO] ‘mouth’, Tal *kà-phüu-x* ‘mouth’ [Jglb], Goem *pwà* ‘mouth (of a human or animal), beak, opening’ [Hlw], Ngas *p(w)ò* ‘mouth, entrance, rim’ [JgN]; 3 Krf, Glm *bù*, Grm *bùú* [SchB], Dera *bò-k*, Maka *boho* [NmM], *bòkò* [SvP], Bure *bùyé* ‘mouth’, Ngm *bòo*

²⁴ For an alternative etymology for Dera and Mokilko see [TN №152].

‘mouth, language, opening’ [NEH], Bol *bò* ‘mouth, opening’ [GAB], Krkr *bò* ‘mouth, opening, language, edge’ [GK], Tng *pɔ-*, *pɔk* ‘mouth, opening, door; edge, frontside’, Kupto *fó-hó* ‘mouth, language; entry’; 5 Bogh *pyok*, Mng *pik*, *piyək*, Grnt *byau*, Jimi *pii*, Tala *pii*, *kaa-bi* ‘mouth’ [Cs], Zaar *vii* ‘mouth, edge, language’ [CrZ], Guus *vii* ‘mouth, language’ (probably, <*ka-bii*, cf. Tala), Buli, Dott, Geji, Zul *pii* [Cs №76], Dyarim *bí*; E 2 Lele *ku-b*, Nch *kwo-bə* ‘mouth’ [HmK]; 3 Smr *bí* [Jg], *bu-m* ‘dein Mund’ [Luk], Tum *bà-g*; 4 Sok *bó-t-um* ‘dein Mund’ [Luk], Mawa *bu-t-um*, Ubi *bùu-r-ùm* [HuJ]; 5 Mabire *be-to* [HuJ], Mig *bíi*, Bid *bii-te* ‘bouche, lèvres, paroles’, WDng *bìi*, *bí*, EDng *bíi* ‘la bouche, l’ouverture, la fenêtre’; 6 Mok *bí-zé* ‘bouche, bec, lèvre’; 7 Tor *be*, *bí*, *bii-tù* ‘ma bouche’ (for *-um* in body-parts cf. E 1 Kwn *ke-les-úm* ‘(my) tongue’ [Luk], etc.).

Originally ‘a hole’? Cf. №6. ***bV²- ‘to pierce, to hole’.**

//Cf. Berb Mzab *baha*, Wrgl *beh̥ha* ‘bouche’ [NZ: 42].

[JgIb **bk*, GrL: 298 (Hs, ngas, Bol)].

19. *bay ‘leaf’: W 3 Tng *bayɔ* ‘leaf (for soup)’; C 4 Jimj *bá-n*, Gude, Sharwa *bá*, Tsuvan *àbá* [BryJ], FM *ba* [Kr]; 5a Lmn *baya*, pl. *báyhá* [Wff], Hitk *báyá*; 7 Mafa *váh* ‘feuille (d’arbre)’; 7a Skn *vʷax* ‘leaf, fibre’ (pl. in *-h-*, regressive assim. <***bah-**>).

//Cush Beja *báya* ‘Baumblatt’ [RBd], Had *buyya* ‘leaf’ [Hds].

For Tng, Gude, FM, Hitk see TN №325 ‘leaf, sprout, flower’. For Ch ‘to bloom; flower’ see №24.

20. *bV²/w- ‘milk’: W 3 Dera *bíyá* ‘milk’ [NmK]; E ***bVw- ‘milk’** (coll.)²⁵: 1 Ndam *but* (*bu-t-*); 5a Mabire *bo* [JnH], EDng *būwà*, Bid *bùwa* coll., Mig *bô* pl., 5b Jegu *bu*, Mubi *bè* coll. [JgM].

The next root is cognate (cf. ‘white as milk’).

a. *bi²w/y- ‘white’: ; 4 Diri *bee* ‘white’ [SkNB]; C 3 HB *bíya* ‘white’ [Kr]; 5a Lmn *bíwà* [Wff], Hitk *bíwà* ‘weiss’; 10 Dzpw *bú* ‘white’.

Deriv. in *m-* : C 5 Zaar *mbaa* ‘to be white, shine’ [CrZ]; 7 Mofu *mbé?*, *mbé'ù* ‘blanc comme du lait’. Cf. [TN №120].

21. *bV²Vw- ‘kind of antelope’: W 3 Krf *bòʔɔ*, Glm *bùbà*, Gera *bòbò* (compensatory redupl.) ‘duiker’ [SchB], Krkr *bàwi* [GK], Ngm *bòʔì* ‘bush duiker’ [NEH], Dera *bwò* ‘duiker’ [NmK], Tng *bobo* ‘gazelle’;

²⁵ Accord. to [TN №114], is cognate with Berb **b/[h]* ‘breast’.

10 Daeri *mba* ‘antelope-cheval’; E 2 Lele *bō* ‘Cobe des roseaux, redunca’.

Note W 2 **pwap* < *bwap*, regular devoicing (redupl. or -p pl.): Grk *pwup*, Mnt, Goem *pap* [Fp], Chip *pap* [Kr], Mghw *pàap* ‘duiker’ [BLM], Ngas *peep* ‘oribi’ [Fl], Mpn *páap* ‘antelope’; 7 (irregular initial) Fyer *faf* ‘antelope’ (gen.), Bok *fafi*, Karfa *fife*, Monguna *tara-fyáw*, Sha *ma-viyú* ‘gazelle’ (gen.) [RC].

/SCush Qwadza *ba?*-*uko* ‘bush-duiker’ [Eh: 135].

Cf. SED II №54 **bVb(b)-* ‘a wild hoofed animal’, with more Cush cognates. Both Semitic forms presented in SED seem not quite reliable:

- a. an isolated EthioSem Tigre *buuba* ‘kudu-antelope’ looks like a loan;
- b. Akk *bibbu* ‘wild sheep’ (note a semantic gap) can be found in a restricted number of literary texts.

a. Cf. C 5 Glv *bux-ta* ‘antelope’, Lmn *bah-ta* ‘redbuck’ [Wff] and Cush Beja *báha* ‘dwarf goat, type of antelope’ [RBd].

22. *bay/w- ‘rope, thread’: W 3 Kupto *àbàawá* ‘thread’, Kupto *bii* ‘thread (esp., for weaving clothes)’; E 4 Smr *báia* ‘Zaum, Zügel, bridle’ [Luk]; 5 Bid *bàayo* ‘trap made of ropes’.

//Eg *ybbw* ‘Art Seile am Schiff, cable’ [EG I: 63].

The following isoglosses may be cognate: a. C 5 Pod *baa* ‘to weave’, derived noun: W 2 Goem *bòòp* ‘woven basket with a narrow opening’ b. Denom. verb in *m-* ‘to (un)tie’: W 3 Krf *mbè??éy*, Glm *mby-áalà* ‘to untie’; C 2 ‘to tie’: MrgC, KlB *mbà*, Wmd *mbəw*, Chb *mbwɔy* [Kr], Mrg *mbàa* [HfM: 30].

23. W *bVy- ‘place’: 2 Grk *pye* [BlY], Mpn *pēe*, Chip *pi*, Goem *bi*, Mnt *be* [Fp], Ngas *pii* [Fl, JgN], Goem *pè* [Hlw], Mghw *pee* [BLM], Mush *pee* [JgO], 3 Bol *bèyi* ‘place, a place where smth is located’ [GAB], Krkr *bii* [GK], Dera *bòì* [NmK], Ngm *bè?i*, Gera *bi* [SchV] ‘place’.

Cf. W ‘hut’: 5 Geji *bii* ‘hut’ [JgIb] (if not < Ch **bin-* id.); 7 Sha *buy* ‘kleine Ritualhütte’ [JgR].

Derived noun in *m-*: C ****mbaw-*** ‘hut, place’: C 2 Wmd, WM, Mrg *mbwa* ‘hut’ [Kr]; Bura *mbwa* ‘home, house’ [BlB], Chb *mbwa* ‘Zimmer, Raum’ [HfC], KlB *mbwà* ‘area’ [MuK]; 3 FK *mbwi* ‘palace’; 8 Log *mba* ‘place’ [All]. Cf. [TN №309].

//Eg *bw* ‘place’ (*bj.t* ‘Ort, Stelle’, siehe bei *bw*) [EG I: 450], ECush

**biy-* ‘place, earth’: Hadiya *bey-o*, dull *piy-e* ‘place’, Oromo *biyy-a*, Konso *pii-ta* (singulative), Arb, Das *bii*, Elmolo *bi-* ‘earth’ [Ss: 45], HEC **bay(-ččo)* ‘place’: Kamb *bee-čču*, Sid *bay-ččo*, Had *beeyyo* [Hds], Arb *biyy* ‘land, earth, field’ [Hay], Oromo *biyyee* ‘soil, country’, *biyya* ‘land, country’, *biyyoo* ‘earth’ (> Ong *biya*) [Grg]. Cf. Sem Arab *bwy* ‘s’arreter, faire halte dans un endroit’ [BK I: 181]. Note also Om Shin *bey-* ‘sitzen, wohnen’, *beyokka* ‘Platz, Sitz’ [LmSh].

The next isogloss is probably cognate. For similar semantic linkings see, eg., W 3 Kupto *fidī* ‘place, field’ and ECush **bVy-* ‘place, earth, field’.

a. ****bay/w-* ‘field’:** C 4 Bata *bóy-ti* ‘fields, farm’ [Jglb]; E 4 Barein (dial.) *bàyá*, *bāyá* ‘field’; 7 Brg *bòwà* ‘field’ [Jglb].

For ngas-Eg-LECush see [GrL: 301], cf. also: Dolg: 38, AA 2 №137, HSED №244, EDE II: 172.

24. **bVy/w-* ‘flower’: C 7 Muy *vàvváy* (**baybay* > *bayvay* > *vayvay*); 9 Mbara *vùvvày*; E 2 Kaba, Nch *bī* [HmK]; 5a WDng *bóoyé*; 5a Ubi *bòyi-n*, Bid *bòoyò*, EDng *bōoyō*; 6 Mok *bóbbò*.

a. ****mbVb-* ‘flower’:** C 8 Lgw *mbuwa* (< *mbuba*), Kus *bwa* [Al]. //Cush Afar *ambáb*, Saho id, Bil *ambab* ‘Blume, Blüte’ [RA].

Denom. verb in **?a-*: **?abVw/y-* > > ****bVw-/bVwVy-* ‘to bloom’:** C 10 Gizey, Ham, Lew, Musey, Marba, Masa *bó* ‘fleurir’ [LexC], Musey *bora* (*bo-ra*) [ShyM]; E 5 *VVw-y-*: Bid *booy*, Mig *bòoyò*, EDng *bóoyé*, WDng *bóoyè* ‘fleurir’.

//Cf. Berb Ahag *buyi* ‘produire des boutons qui donneront fleurs et fruits’ [NZ: 142].

25. C **bV* ‘beautiful, good’ > *mbV* ‘to be good’: 7 Mofu *-mb-* ‘être beau, plaire’; 8 Kus *bu* ‘beautiful, good’, Log *bi* ‘good, kind’ [AlL]. Cf. W 3 Bure *bó’ó* ‘sweetness’.

//Sem Arab *bhy/w* ‘être beau, joli; briller’ [BK I: 174], SCush Alg *bo^r* ‘better, superior’, *bo^rot* ‘beautiful’ [Eh: 139].

For CCh 7a Skn *boe* ‘beautiful, good’; 10 Dari *bāy* ‘bien, joli, beau’, Dzpw *bāi* ‘bien, bon’ cf. Sem Arab *?abha-t-* ‘splendeur; beauté’ (?bh) [BK I: 6].

26. **bud-* (< **bud-*, dissim. of two voiced plosives) ‘to hoe, cultivate’: C 4 Gude *budə* ‘to clear and farm new ground; hoe deeply

in hard ground', cf. *buhədə* 'to dig up, dig out'; 5 Lmn *buda* 'hoeing, doing woman's farm work'; 7 Mofu *-bábəd-* 'labourer (en fin de saison des pluies), houer'; E 1 Mobu *bábážé* 'défricher'.

Derived nouns in *m-*: W 3 Krkr *mbùudāa* 'communal labour' [GK]; C 5a Hdi *mbudu* 'second cultivation, the soil is turned over'.

Derived noun in *'a-* 'cultivated field': **?abVd-* > W 5 Zaar *vùdī* 'field cultivated by the grand-father' [CrZ]; C 7 Muy *vòdàŋ* 'cultivated field'.

//Sem Aram *bādīd* 'bêche; tranchée, sillon' [DRS: 44], Cush Beja *báado* 'die Furche, Ackerfurche', Nubian *badd* 'graben, pflügen' [RBd], Berb Figig *badu* 'sillon' [NZ: 17].

27. *bVd- 'to strike, kick, butt': W 3 Krkr *bàdaa* 'to kick' [GK], Ngm *bidâ* 'to kick (with foot)' [NEH], *bid-* 'to step on an insect' [JbN]; 6 Bade *àvdu* 'collide, hit, bang into, butt with head'; E 1 Mobu *bádē* sg. 'frapper, taper'.

a. E 5a **bad(d)-* (< **badH-*) 'to collide': E 5 Mig *bàddò*, Bid *bàdák* '(se) heurter'.

//Sem Arab *bdh* 'frapper qqn (avec un bâton)' [BK I: 95], cf. Amh *bädäbbädä* 'frapper' [DRS: 44].

28. *(bV)-bVd- 'to pour': W 4 Wrj *bá-bád* [SkNB], Paa *bú-budìu* [MS] (compensatory redupl.) 'to pour out'; C 7 Mafa *bad-* 'verser (un liquide)',

Deriv. C 7 Mafa *budok^w-*, *buzok^w-* 'transvaser', Mofu *-bádáŋgw-* 'vidér, verser, couler'.

a. Deriv. C **m-bVd-* 'to pour (out, on)': C 1 Tera *mbádī* 'to pour out' [NmT]; 5 Lmn *mbəda* 'to pour' [Wff].

Derived noun: C 7 Chuv *mébèdèf* 'fontanelle'. Dissim. of two voiced plosives.

b. **bVd- > bVd-* 'to wash': W 3 Tng *bude* 'to steep, soak', Krkr *biđu* 'to wash, bathe', Gera *bùdə-mi*, Glm *báry-àalá* 'to wash' [SchB]; E 1 Kera *bàadá* 'waschen', cf. Mobu *bážé*, pl. *pážé* 'laver qqch'; 3 Smr *bádá* 'barboter' [JgSib].

//Cf. Om Kafa *bad* 'untergehen im Wasser, versinken' [RK].

29. *bVd(d)- 'to untie, to separate': W 3 Bol *biđaa* [GAB], Ngm *bada*, *bidâ* 'to untie' [NEH], Krkr *bàdaa* 'to separate, untie' [GK]; 4

Paa *mbidāa* ‘to release, untie’ [MS]; C 9 Mlw *bidi* ‘détacher’.

Dissim. of two voiced plosives or *-dd-* > *-d-*.

//Sem Arab *bdd* ‘séparer; éloigner, renvoyer qqn, repousser’, Hbr *bōdēd* ‘séparé’ [BK I: 92, KB: 108, DRS: 44], Cush Sid *bad-* ‘to separate’ [KS: 312].

For Sem-Cush see [AA 2 №79].

30. *bVd- > bVd- (dissim. of two voiced plosives) **‘to rot, decay’**: W 3 Tng *bude* pl. *bupte* ‘to decay, rot’; 4 Paa, Diri *budū* ‘to decay, rot’ [SkNB]; C 7 Ould *-mbàdāy* ‘s’abîmer, gater, faire d’adultère, fornication’; 10 Azum *budà* ‘decay, rotten, bad’; E 7 Mubi *bèedéw* ‘devenir mauvais’ [JgM].

Deriv. W 3 Pero *bùrání* (< **bud-ni*) ‘putrid’.

//ECush Oromo *bada* ‘to spoil’ [Grg], cf. Sem Arab *nbd* ‘être usé, râpé (se dit des habits)’ [BK II: 1475].

31. *bVd- > bVd/d- ‘to open’ (dissim. of plosives) : W 1 Hs *bíudà* ‘to open slightly; uncover and expose to view for a short time’, *bíudè* ‘to open, remove’; 2 Ngas *bat, bet* [Fl], *bét* [JgN] ‘to open’; 5 Grnt *bədi* ‘to open, opening’ [Hr]; C 2 Klb *mbədīyà* ‘to open’ [MuK].

Derived noun: W 1 Hs *má-buudìi* ‘key’.

//Cush Saho, Afar *bod* ‘to open’ [RA].

32. *bVd- > bVd- (dissim. of two plosives) **‘to close, cover’**: W 6 Duw *bèdo*, plac. *bèbèdo* ‘to close’; C 7 Mada *ávàd* ‘couvrir’; E 1 Mobi *bóde* ‘couvrir’, pl. *poddé*, Ndam *bèdi* ‘incuber, couver (des oeufs), fermer’.

a. ***bVd/d- ‘to hide (o.s.)’**: C 5 Mlg *báda* ‘sich versccken’; E 3 Smr *bwədə* ‘cacher’ [JgSb]; 5b Mubi *biidī* ‘se cacher’ [JgM].

Deriv. in *m-*: C 2 Klb *mbùdà* ‘to hide’ [MuK].

Note C 4 Gude *bádərá* ‘food eaten in secret to avoid sharing’.

33. *bVd- > bVd- ‘to speak’: W 3 Dera *bídè* ‘to ask’ [NmK]; 6 Duw *əbdo*, WBade *əbdu* ‘to ask’; C 5 Wnd *báda* ‘to chatter’ [FW], Pod *mbáda* ‘parler’; 7 Mada *ámbàdá* ‘parler, dire’, Mbuko *mbéda* ‘répondre’. Dissim. of two voiced plosives.

//Cf. Sem Phn *bd* pl. ‘idle talk’ [HJ: 144], Cush Dah *?ibed* ‘to tell’ [TsD].

34. E *bVVd- ‘to seize’: 1 Mobu *baade* ‘saisir’; 5b Mubi *bìudí* ‘tenir, serrer, attraper, saisir’ [JgM].

The following isoglosses stem from the same Ch rooot.

a.W ***bVd- ‘to glean’:** W 3 Krkr *bìudù* ‘to glean’ [GK], Ngm *bìudò* ‘gleaning’ [NEH]; 6 GBade *bàdù* ‘gleaning’.

b. Deriv. in *m-* ‘to pluck, pick’: C 4 Gude *mbudə* ‘to pull, pluck out’; 5 Pod *mbáda* ‘to gather, pick (pl. obj.)’. Dissim. of two plosives.

35. E 3 *bad- ‘to turn’: Tum *bàad* ‘se retourner’, Smr *bádá* ‘voir en se tournant’ [JgSib].

C deriv. in *m-*: ***mbad- ‘to turn, (ex)change’:** C 5 Lmn *mbəda* ‘to change, turn, replace’, Pod *mbáda* ‘changer, échanger’, Hdi *mbəday* ‘to transform, to turn’, Mlg *mbáda* ‘ändern, austauschen, (ex)change’; 7 Mbuko *bə-mbad* ‘échanger’, Mol *mbad* ‘to turn, change’ [FsM], Mada *ámbdà* ‘changer, affranchir, payer une rançon’, Mbuko *mbéda* ‘renverser, transformer’, Mofu *mbəd-* ‘(se) tourner, retourner; changer, (se) transformer, échanger; répondre, traduire’, Ould *-mbàd* ‘tourner, faire la commerce, remplacer’; 9 Mbara *mbùd* ‘devenir, rendre’.

Deriv. in *-k-*: W 6 GBade *bàdə-ku* ‘translate, speak foreigh language’; C 7 Ould *mbàdà-kà* ‘retourner’.

The following isogloss seems cognate:

W 3 ***bVd- > bVd- (dissim.) ‘to wind, roll’:** W 3 Bol *bìidìyu* ‘to wind rope round and round’ [GAB], ‘auseinanderfalten’ [LkB], Maka *bèed-* ‘to fold’ [SvP], Ngm *bòodâ* ‘to roll up, coil up’ [NEH].

CCh **mbida* ‘to change’ [GrR].

36. *(?a)bVd²- > *vad- ‘to fabricate’: W 4 Wrj *vaad* ‘fabricate’ [BlS]; C 7 Ould *-vàd* ‘fabriquer, forger’ Chuv *mévdéy* ‘forger, couvrir le toit de la case’, Mada *ávàd* ‘forger’, Muy *ávàd* ‘to roof, to forge’, Mafa *víd-* ‘forger, fabriquer; faire un toit en paille’.

//Sem Arab *bd* ‘produire qqch de nouveau, inventer, commencer’, IV-stem - *'bd* ‘inventer, produire pour la première fois; faire, inventer, forger (un conte)’ [BK I: 96].

A loan from Arabic can not be excluded.

37. *(m)bVd- ‘to blow’: C 2 Klb *mbədà* ‘to blow’ [MuK], Mrg *mbìdú* ‘to blow’ [JgIb]; 7a Skn *vud* ‘to blow into smth’; E 5a EDng *bóodé*

‘souffler, activer le feu’. Secondary *-d-* by dissim. of two voiced plosives. Accord. to [TN № 14], CCh follows AA **bt* ‘hot wind’. Derived noun: C 4 FM *mbudu*, FB *mbudin* [Kr], Jimj *mbidən*, Gude *mádá* ‘wind’ [BrJ]. //ECush Som *biday* ‘to be blown away’, *babba* ‘wind gust’ [LIS].

38. C *mbVd- < *bVdVH- ‘to go, walk, come’: 1 Boka *bìdèdī* ‘to go’ [Kr]; 2 Klb *mbudiyà* ‘to return’ [MuK]; 5 Vemgo, Gvoko *mbada* [HmG], Hdi *mbaday* ‘to walk’; 10 Azum *mbadà* ‘to come’ //Cf. Sem Arab *bd?* IV ‘sortir; venir’ [BK I: 94].

39. *bVHVd-> bVd-/*bVd- ‘to leave, to escape, go away’: 2 Mrg *mbàdù* ‘to escape’; 7 Mofu *-bəd-* ‘laisser la place’; 8 Kus *bada* ‘to abandon’; E 2 Lele *bàdī* ‘go to meet smb.’; 3 Tum *bəd* ‘sortir’. //Sem Arab *ba'ida*, *ba'uda* ‘s'éloigner’, Aram Syr *'ab'ed*, Sab *b'd* ‘éloigner’ [DRS: 73], for more Sem cognates see [Bel 1 №31]. Cf. Arab *b'd* ‘être éloigner, être absent; périr, mourir’ [BK I: 141] and C 10 Azum *badà* ‘to cease, to be irrevocably lost’, *bodà* ‘deaths’ (pl.).

40. *bad(VH)- > bad- or *bVd- > bad- (dissim. of two plosives): ‘to fall’: W 3 Gera *bàdə-mì* ‘to fall’ [SchV]; C 5 Wnd *bəda* ‘to fall’ [JgIb]. Deriv. C 7 Mofu *-bəd-l-* ‘terrasser, jeter avec force, cogner, assommer’.

Reflexive ***mbad-** ‘to collapse, ruin’ (intr.): 5 Pod *mbəda* ‘s'écrouler, faire tomber, collapse, fall’, Mlg *mbəda* ‘fallen, sterben’; 7 Muy *ámbəd'* ‘to collapse’, Mada *ámbàdà* ‘se démolir, s'écrouler’, Mafa *mbəd-* ‘renverser, démolir’, Ould *-mbəd'* ‘s'écrouler, tourner’. //Cf. Sem Arab *bdh* ‘jeter, lancer’ [BK I: 94]. Semantically not very convincing (but cf. Mofu).

41. *bad- > bad- ‘thigh’: W 4 Miya *mbàdə* ‘thigh’ [Sch]; C 7 Mada *óbbód* ‘cuissot, gigot (d'animal)’, Merey *bədə-zay* ‘fesse’. Dissim. of two voiced plosives. //Sem Eth Harari *bädu* ‘croupe (d'un animal)’ [DRS: 45], ECush Som *bawdo* ‘thigh’ [LIS].

42. *bid- (< -bid- ?) ‘(red/patas) monkey’: W 1 Hs *bíri*; 2 Mnt, Goem *pid* ‘monkey’ [Fp], Goem *pít* ‘small red monkey’ [Hlw], Mnt *pit*

[JgC], Mghv *pit*, Grk *pət* [JgIb], Chip *pit* [Kr], Mushere *dàa-pit* [JgO], Mpñ *pit* ‘monkey’; 3 Gera *bídī*, Glm *bìryà*, Grm *bùdà*, Bele *bìdò*, Krf *bìrò* [SchB], Krkr *bùdò*, Grm *budda* [JgIb] ‘monkey’, Ngm Bol, Krkr *bìdò* ‘monkey, esp. patas monkey’ [NEH, GAB, GK], Tng *pid-ok*, Bure *bídò*, Kupto *fidó* ‘monkey’ gen.; 4 Paa *vuda-čiki*, Jmb *vidi*, Kar *viti-zha*, Siri *víyí* [JgIb]; 5 Mngs *brri* [Cs], Grnt *bèedàu* [Hr], Geji *bəli*, Buli *bərè*, Zaar *vùri* [JgIb], Guus *vùri* [CrG], Dyarim *bùri*; 6 Ngz *vəžl*, WBade *əvžā-n* ‘monkey, esp. patas monkey’, Duw *əvži* (-ži- < *-di), pl. *əvžəžid* ‘monkey’ (cf. *əvži*, pl. *əvžid* ‘Bade people’); 7 cf. Fyer *fíir* [JgR]; C 1 Tera *vidi*, pl. *vité* [NmT]; 5-5a Mlg *vəré*, Wnd *vre*, Chn *vdí* [JgIb], Pod *ude*; Gdf *vítʰ-á-dàga* [JgIb], Lmn *vəži* [Wff], Hdi *vəži* Hitk *vəži* (-ži- < *-di); 7 Zlg *bìrè* ‘singe rouge’, Muy *vri* ‘patas monkey’, Gis *vre* [JgIb], Ould *vàry* ‘monkey’; 9a Gdr *briá* [JgIb], *biryá* [Mo]; 9 Mnj *avri-yongo*, Mbara *frè*; 10 Masa *víira*, Dzpv *vír* [JgIb], Azum *víra*, Musey *viina* (< *vir-na); Masa, Musey *víirà*, Marba *víra*, Peve *vír*, Hede, Zime *vir* ‘monkey’ [Shy]. Irregular reflexes of the initial (esp. -f- in Fyer and Mbara) may be provoked by a pref. (a noun-class marker).

//Berb Ahag *abiddaw*, Ghad *biddu* ‘singe’ < Chad W 3 [NZ: 24] [NM *b-r/d-, JgIb *bd, GrL: 298 (Hs, ngas, Bol), ISv *b-r-y, HSED №281].

Note W 4 Wrj *batuwa-na* [Sk], E 2 Lele *bòdū* ‘monkey’, E 5b Kaj *?aboodan* ‘singe’ < *?abawVt-/*?abatVw-.

43. *bVd- > t-/k-bVd- ‘night’: 2 Grk *pwót* ‘night’, *mòr pwót* ‘midnight’ [BIY]; 3 Krf *búdī*, Gera *bírbì*, Glm *bàryì*, Grm *bíʔí* [SchB], Krkr *bèedi* [GK], Bol *bòdī* [GAB], Ngm *bèdī* [NEH], Maka *bòdī*, Dera *bírì* [NmK], Kupto *fédī*; 5 *k-bVd-: Bogh *voot*, Saya *ka-vit*, Grnt *víru*, Tala *ka-hur*, *ka-fur* [Cs], Dyarim *ká-vòdī*; 6 *t-bVd- > d-bad- > dvad-: Bade *ədvəd*, Duw *ədəvid*; C *t-/k-bVd- > vVd- > vVr- ‘night’: 1 Tera *vid-ki* [NmT]; 2 Chb *avirvir* [Meek], Bura *viri* ‘night’, *aviri* ‘at night, during the night-time’ [BIB], Klb *vùʔi* [MuK]; 3 HN *ivre* [Kr], FK *vəlè*; 4 Jimj *dávəden* (< t-bVd-), Bata *káadə* [Mo], FB *kidi* (< *ka-bVd-), FM *vùdú* Nzn *vide*, Mwl *vùdō* [Kr], Gude *vədā*, Jimj *vədən*, Tsuvan *vədē*, Sharwa *vədáká* [BrJ]; 5-5a Pod *vəda* [Mo], Wnd *vad*, Gdf *vide*, Gava, Chn *vədē*, Chk *vide*, Glv *av̥da*, Dghw *vde* Gvoko *rvede*, Hdi *rvidik* [HmG]; Lmn *árvidi* [Wff], Hdi *rə-vidi-k* [BrH] (< dvede < t-bede), Hitk *vidi* 6 Daba *vùdū*; 7 Mofu *ta-vád*, Gis *duvudù*,

Mafa *vad*, Chv *vàd*, Ould *la-vad*; 7a Skn *væd*; 8 Afd *fadē*, Ngala *budi*, Sao *fade*, Mak *fade*, Gulfei *fáde*, Kus *mváde* [Sol: 188], Log, Kus *nvade*, Makari *fade* [Al]; 6 Musgoi *vædu*; 9a Gdr *dáfda* (< *t-bda*) [Mo: 18]; E 4 Mawa *bədə-η* [HuJ], Sok *báde-m* [Luk], Barein dial. *bòdö*, *bòodóm*, *bòdó*, *bodo*. Note ‘plain’ –*d*- in Kuseri and Makari according to [Sol], but –*d*- in modern dictionaries. **bVd-* > *bVd-* due to dissim. of two voiced plosives.

//Sem Akk *bādu* (NA) ‘evening’ [CAD b: 27], ECush Som *baaday* ‘be late; stay overnight’ [LIS], Beja *báda* ‘Dämmerungstunde’, *bád'a* ‘Dämmerungzeit am Abend oder Morgen’ [RBd], Berb Ghad *ibed*, Ahag *ehod*, Ghat *ihed* ‘night’ [NZ: 26]. A loan from Chadic into Berber languages can not be excluded.

[JgIb **bd*, ISv:15, GrL: 298, for CCh **vid* see GrR].

44. *badVH- > badi ‘dawn, morning’: W 2 **bit*/**bit* < *badi* (vowel assim. and regular devoicing in auslaut): Ngas *bit* ‘morning, dawn (just before sunrise)’ [Fl], *bit* [JgN], Mpñ *bit* ‘morning, pre-dawn (while still dark)’, Chip, Mnt *bit* ‘morning’ [JgC], Mghv *bít* ‘morning, daybreak’, *mbit*, [BIM], Mush *ku-bit* ‘morning’ [JgO]; 3 Ngm *badi* ‘morning’, *bádaa* ‘dawn’ [NEH]; 7 Fyer *bit* ‘Morgen’ (< W 2) [JgR]; 9 Msg *báadi* ‘morgen, tomorrow’ [LkM]; E 3 Tum *bàd* ‘tôt, early’ (shift of emphat.: *bad* > *bad*).

Note the following forms as Arabic (Kanuri?) loans: W 6 Ngz *bàdī-tú* ‘to begin’; C 8 Makari *badi* ‘beginning’ [AlM]; 5a EDng *bàddiyē* ‘commencer’, 5b Brg *bádi* ‘commencer’.

//Cf. Sem Arab *bd?* ‘commencer’, *bdw* ‘commencer, paraître’ [BK: 94, 99], Sab *bd?* ‘beginning, first occasion’ [Bl: 35], Soq *béde*, Jib *bde?* ‘to begin’ [DRS: 44].

Differently see in [HSED № 172, TN №13].

45. *bVd-m/n- ‘cave, burrow’: 6 Buwal *bàdam* ‘cave’, Daba *bàdām* ‘grotte, caverne’, Mina *bàdəm* ‘cavern’ [FrJ]; 7 Chv *bàdàm* ‘grotte’, Mofu *bàdam* ‘cavité sous un rocher’, Mafa *bodom* ‘grotte, cavité’ ; E 5a WDng *bídinè*, Bid *bidàne*, Mig *béddàné* ‘terrier’, EDng *bídinē* ‘le terrier, la tanière’.

Denom. verb: C *²*a/m-bad-* ‘to dig out’: C 7 Mafa *mbad-* ‘déterrer (la partie cachée d’un objet sans toucher la partie apparente)’; 3 Bana *vàdī* ‘déterrer, gratter’; 7 Chuv *mévédēy* ‘déterrer’.

Pl. in *-r-*: C 7 Mafa *badar*- ‘déerrer (de nombreux objects)’.
 //Sem Arab *bawd*- ‘puits’ [BK I: 177], E Cush Som *bud* ‘grave’ [LlS], Afar, Saho *bod* ‘spalten, aufgraben’, Afar, Saho *bodo*, Bilin *bid* ‘Loch, Grube’ [RA].

46. *bVd- ‘mosquito’: W 3 Dera *bárə-k* (<*bVd-k*) [NmK], Bol *bòdò-ti* ‘mosquito’ [GAB]; 6 *'VbVd-*: Ngz *vàdàdùwà* (*v-* < *-b-*), Duw *àvàdùwà* ‘mosquito(s)’, WBade *àvdàdùwan* ‘mosquito’; E 3 Ndam *bídé*, Smr *bédē* [JgIb], Tum *bád* ‘mosquito’

47. *bit(t)- ‘to extinguish, to end’: W 1 Hs *bíčè* ‘to go out (lamp, fire), extinguish’; 2 Ngas *pit* [Fl], Mghv *pít* ‘to put out fire, switch off light’ [BIM], Mpñ *pít*, Goem *pít* ‘extinguish smth; quench thirst’ [Hlw] (regress. devoicing of the initial); 3 Krkr *mbutu* [Nm], Bol *mbittu* ‘to extinguish (fire)’ [GAB], Pero *pítò* ‘to quench a fire’; 5 Guus *mbəcá* ‘to extinguish (fire)’ [CrG], Zaar *mbəcá* ‘to extinguish’ [CrZ]; 7 Bok *"bit* ‘beenden, zu Ende sein’ [JgR]; C 4 Bch *mburə* [Nm]; 7 Mol *mbat* ‘to turn off’ [FsM]; E 4 Barein (dial.) *biito, bito, bító* ‘to extinguish’, Mawa *bidiy* ‘éteindre’; 5a Mig *bítò* ‘éteindre’, *báttò* ‘s'éteindre’, Bid *bat, bit* ‘s'éteindre (le feu)’; 6 Mok *báàtè* ‘manquer, mourir’.
 //Sem Arab *btt* ‘achever, terminer’ [BK I: 81], Mhr *butt* ‘se perdre’ [JnM], Berb Tawl, Ayr *batway* ‘se perdre, s'égarer’ [NZ: 137].
 [Nm **b-t* ‘to extinguish’].

48. *but- ‘to untie, separate, release’: W 2 Mghv *bwot* ‘to let go of’ [BIM], ‘separate, divorce’ [JgS]; 4 Paa *mbuta, mbuda*, Miya *but-*, Kar *bit-*, Wrj *bəč-*, Tsagu *but-* ‘to untie’ [SkNB], Miya *bəta* ‘to untie, release’ [Sch]; 7 Tambas *bubwet* ‘to untie’ [RC]; C 10 Masa, Gizey, Musey, Lew, Ham, Marba *bùt* ‘délier’ [LexC], Dzpw *bùt* ‘découdre; démeler, dérouler, détacher’, Masa *bùt* ‘divide, separate, divorce’ [CC], Musey *buta* ‘dénouer, déplier; délier, libérer, délivrer’ [ShyM], Azum *butà* ‘to release (primary meaning), untie, loosen; E 5 Mig *bóttó* ‘peigner’. Cf. E 1 Kera *bití* (vowel assim.) ‘lâcher, annuler; to loosen, release, cancel’.

//Cf. Arab *bt^f* (a) ‘quitter qqn, s'en séparer’ [BK I: 82].

The next isogloss may cognate (terms for ‘to untie’, ‘to release’ and ‘to open’ are confused in Azumeina).

a. *bVt- ‘to open wide, expand’: W 3 Bol *bittaa* ‘to expand, open

wide' [GAB]; 10 Azum *butà* ‘to open (a sealed jar)’. Cf. W 3 Kupto *bòotéy* ‘to reveal (a secret), uncover, clarify’.

Deriv. C 10 Dzpw *bùtòj* ‘grand ouvert’.

Deriv. W 3 Krkr *bit-laau* ‘to open out, expand’ [GK].

49. *bVt- ‘to cover, wrap’: W 2 Goem *bát* ‘to fold smth (cloth, etc.)’ [Hlw]; C 3 Bana *bàti* ‘proteger (de)’; 5 Pod *mbuta* ‘to wrap up’; 10 Masa, Ham, Lew, Marba *bòt* ‘couvrir avec couvercle’ [LexC], Musey *bodta* ‘étendre, couvrir; la couverture’ [ShyM].

Cf. W 1 Hs *bútáa* ‘a variety of thatching grass’ (as a cover).

// ECush Som *baati* ‘type of cloth’ [LIS].

Note C 7 Mbuko *bəbat* ‘couvrir’ (compensatory redupl. < *Hbt/t, *nbt).

50. *bVt- ‘to deceive’: W 3 (compensatory redupl. < b-h-t ?): Krkr *bàabàatu* ‘to deceive, trick’ [GB], Bol *bàttaa* ‘to trick; to scare’ [GAB], Maka *bètt-* [SvP]; C 6 Buwal *bàt* ‘to deceive’; 7 Mafa *bét-*, *béd-*, *pét-* ‘amadouer qqn, tromper’; 10 Musey *mbadta* ‘flatter, tromper; la tromperie’ [ShyM], cf. 5a Hdi *batay* ‘to plead, flatter’.

//Sem Arab *bht* ‘mentir, calominier qqn’ [BK I: 179f].

51. *bVt- ‘to blow, smoke’: C 3 FK *bàtò* ‘to blow as the wind’; cf. 6 Buwal *bàc* ‘to operate bellows’, Mina *bác* ‘to blow’; 7 Zlg *vit* ‘enfumer’; E 5a Mig *bóttó* ‘enfumer’, Bid *bòt* ‘enfumer un trou pour déloger un gibier’.

//Cf. Om Wolt *beeta* ‘storm’ [LmW: 325].

a. ***bVt- ‘to fan’:** W 5 Dott *bat* ‘to fan’ [CrD]; C 4 Gude *bawutə* ‘to fan’; 5 Pod *búta* ‘éventer’; 9 Mulvi *vàdí* (voicing in medial position and dissim. of plosives) ‘éventer’; E 3 Tum *bàäd* ‘éventer’.

Derived noun: C 9 Mnj *baaday* (-d- < *-t- is regular) ‘éventail’.

52. *bVt- (possibly, < *HVbVt-) ‘to push (down), to strike’: W 2 Goem *bat* ‘to push aside either with hand or foot’ (apud [TAS: 12]), Ngas *but, bet, bat* [Fl], *bèt* [[JgN] ‘to push’, Mghv *bèt* ‘niederschlagen, stossen’ [JgS], *bèt* ‘to push down’ [BlM], Mpn *bèt* ‘to push’; 3 Kupto *bòotéy* ‘to beat (with hand); to slap’, cf. Bol *bùutu* ‘to knead’ [GAB]; 5 Zaar *vot* (v- < -b-) ‘to beat’ [CrZ]; E 5a Bid *bit* ‘frapper’.

The next root seems cognate, cf. ‘to push down’ in Mghv and ‘frapper,

jet en bas' in Arabic.

- a. ***bVt- ‘to fall, throw’**: W 3 Krf *bit-*, Glm *bəz-* [SchB], Bure *bet-* ‘to fall’, 4 Miya *bəta* ‘to throw, shoot’ [Sch]; C 6 Buwal *bat* ‘to sink’. Deriv. W 3 Kupto *bàatù-mà* ‘falling down due to slippery’. //Sem Arab *hbt* ‘frapper, jeter en bas, précipiter en poussant’ [BK II: 1379]. Akk *abātu* ‘to destoy, ruin’, *abut* ‘ruined, decayed’ [CAD a: 41]. For a root variant cf. №61.

53. W *bVt(t)- ‘to be weak, tired’: 2 Goem *biet* ‘poor’ [Fp], *byet* ‘to be too weak for smth, be too weak to do smth; become weak or useless’ [Hlw]; 3 Bol *mbutu* ‘to tire out, be tired from’ [GAB], Tng *buta-k* ‘old thing’. Cf. C 2 KlB *bàtù* ‘to pant’ [MuK] //Sem Arab *btt* ‘excéder de fatigue, surmener (une bête de somme)’ [BK I: 81], Geez *btt* ‘wear out, become old and worn out’, Amh *bättätä* ‘wear out’, *butatto* ‘worn-out cloth’, Harari *bututtu*, Tna *bätbätä* ‘grow old’ > Cush Oromo *bututtū* ‘worn-out cloth’ [LsG: 113], cf. Oromo *bututtuu* ‘rag’, *bututaa* ‘tired’ [Grg].

For a ‘root-variant’ cf. C 7 Mbuko *butoy* (< **büt-*) ‘se faner’ and Sem Arab *btt* II ‘être fatigué’ [BK I: 134-5].

54. *but- ‘soil, mud’: W 3 Tng *bude-ke* (regular voicing in medial position) ‘mud’, Dera *büt* ‘filth’ [NmK]; E 5b Kaj *biutù* ‘sol’.

Denom. verb: C 2 Bura *buta* ‘to fill in dirt for a floor or for grading a road’ [BLB].

//Cush agaw **bət-a* ‘land, country, soil’: Bilin *bəta* ‘soil, sand, filth’, Xamir *bət'a* ‘soil’, Aungi *bət'i* ‘earth’ [ApAg: 59]. Cf. Om Wolt *biitta* ‘soil, earth, land’, Dawro *biita*, *bitta* ‘dust’, Gamu *bitta*, Dace *biitta*, Zalo, Gofa *bitta* ‘soil, land’. According to [LmW: 325], Omotic and agaw forms follow “Old Cushitic (Cushitic and Omotic) stem **biy-* with addition of a formative suffix in dental”.

55. *but- ‘flour’ (pl.): C 4 Nzn *mbùči*, Bch *?umbótó* [JgIb], Gudu *ku-mbóči*, Mwl *ùmbótí* [Kr], note *m-* as a sing. pref.; E 4 Mawa *but*, Sok *bítā* [JgIb] ‘farine’; 5a WDng *büdbát* pl. ‘farine fine’, Mig *bítá* pl. ‘farine’, 5b Jegu *bút* ‘flour’ > *bút ko ook* ‘ash’ = ‘flour of fire’ [JgJ], Tor *büt*, Mubi *büt* (coll.) [JgM], Brg *bütà* pl. ‘farine’. Note the following correlation in ECh 5 languages WDng, Migama, Birgit: ‘flour’ pl. ~‘ash’ sg.

a. ***(bV)-but- ‘cold ash, salt’:** 2 Ngas *mbìt* ‘soot’, *mbùt* ‘smut’ [JgN]; 3 Gera *bèdä* [SchB], Bol *bütó*, Grm *bùtá* [JgIb], Ngm *bùto* [NEH], Bele *bütó*, Krkr *bìto*, *bùto* [GK], Bure *bìutó* ‘ash’, Maka *bütó* ‘salt’ [SvP]; 4 Paa *bàti-ki*, Diri *butu* ‘ashes’ [SkNB]; 5 Grnt *bìusi* < **buti* [Ja], Buli *bàdár* (*bVt-r-* pl?) ‘ashes’ [Cs]; 6 Ngz *bábát* [SchN], *bébéd* [JgIb], Duw *bàbut*, WBade *pàbát-an* (dissim.); C 7 Dugwor *bítá*, Zlg *bité*, Baka *viti* [BAS], Muy *viti* (< **b-vVt-* < **bVbVt-*); 8 Bud *budén* ‘Asche’; 9a Gdr *bátù* ‘salt’ [FrG]; 10 Musey *bud-na* ‘ash’ [ShyM], Gizey, Masa *bùdùw*, Ham, Musey, Marba *büt*, Lew *bút* ‘cendres froides’ [LexC], Dzpw *büt* ‘cendre, sel végétal’, Dari *büt*, Peve *büt*, Hede *butu*, Ngide *pùtù*, Zime *bud* ‘ash’ [Shy **but*], Azum *but-nà*; E 5 ‘ash’: 5a Bid *bütò*, Mig *bíttí* m., EDng *bütü* coll., WDng *bütù* m. sg. coll., 5b Tor *bìuti*, Brg *büti* (f.); 6 Mok *bítí-kè* ‘tisson’. [Nm **bətu*, IgIb **bt* ‘ashes’].

b. C ***bu-but- ‘dust’:** 4 Gudu *búbùutà* ‘dust’ [Kr]; 7 Ould *bàbàt* ‘poussière (de bois, mil)’. Cf. C 8 Afd *buddih* ‘Staub, dust’ [Sol: 122]. W 1 Hs *há-baìi* ‘ash’ is rather a loan, cf., eg., Arab Soud *habūd* ‘cendre’ [DRS: 356].

[AA 2 №75 ***bət̪**: Eg *wbd* + WCh 3, E 5a Dng, Bid; HSED №353].

56. *bVyVt-/ *abVt- ‘hut’: W 2 Mpn *bit* ‘temporary shelter’, Mghw *bìt* ‘hut, house, home’ [BLM], ‘Grasshütte’ [JgS]; 3 Krkr *bìti* ‘place’ [GK]; 7 Kul *‘àbùt* ‘Hütte’, Bok *büt* ‘Hütte der Ful’ [JgR], DB *but*, Bok *bút*, Monguna *àbùt* ‘grass hut’ [RC]; C 5 Dghw *bàtiwè* ‘hut’ [JgIb]; E 5a EDng *bíttí* ‘lieu entre les concessions où les voisins se reposent’. Denom. verb in *m-*; C 6 Buwal *“bāt̪* ‘domesticate’.

Denom. verb in *?a-*: *?a-bVt- > bVt-*: W 7 Monguna *bét* ‘to build house’, *bet mušét* ‘to mould pot’ [RC].

//Sem ***bayt-** ‘tent, maison’ [DRS: 63], Akk *bātu* ‘to stay overnight’, *bītu* ‘house, shelter, room, tomb, container, place’ OAkk on [CAD b1: 282], Ug *bt* ‘to stay the night, lodge’, *bt* ‘house, home, family’, Pun, Phn *bt* ‘house, building’ [DUL: 241, 243], Geez *byt* ‘spend the night’, ***abeta**, Caus., also ‘overnight’, *bet* ‘house, room, family’, also Aram Syr *baytā*, Sab *byt*, Hbr *bayit*, Soq *beyt*, Tgr, Tna, Amh *bet* ‘house’ [LsG: 116f], Arab *byt* ‘passer la nuit dans un endroit’, *bayt-* ‘maison’ [BK:181].

[AA I №138, Sem, Ch Mghv, Kul, Bok; HSED №253].

57. *bVt- ‘sisters, clan’ pl., *bVwVt- ‘sister’: W 7 Fyer *bèt* ‘Geschwister, siblings’ (pl.) [JgR]; C 5a Bid *boote*, pl. *sèney* ‘soeur’; 5b Tor *bòot* ‘sister’, *bèta* ‘clan’. Cf. C 7a Skn *bwota* ‘closely cooperating group of people’.

//Berb Mzab, Wrgl *betti*, Nef *batti* ‘tente paternelle, soeur de pere’ [NZ: 135].

58. *bVwVt- ‘distress, failure’: W 3 Bol *buutì* ‘unfortunate situation’ [GAB], Krkr *buutì* ‘distress, troubles’ [GK] ‘Plage, Kummer’ [LkL]; C 5a Hdi *bætbæt* ‘in vain’; E 6 cf. Mok *bütte* ‘faux, mal préparé’.

//Sem OffAram *bwt* (the substantive of unknown meaning, presumably: ‘burden’ or ‘shame’ or ‘trouble, distress’) [HJ: 148].

59. [*bat-] > *bat- ‘to tear off’: W 3 Bol *botu* ‘to break rope’ [GAB]; C 5 Mlg *bæta* ‘zerreissen; entfernen’; 10 Ham, Lew, Marba *bát* ‘arracher’ [Lex], Dzpw *bát* ‘arracher des mains’, Dari *bāt* ‘arracher’, Azum *bata* ‘to wrest’.

//Sem Arab *bṭ* ‘déchirer une robe toute neuve, blesser, déchirer jusqu’au sang’ [BK II: 156].

a. For a root variant cf. ***bVt- ‘to pull, tear’:** W 2 Grk *bat* [Fp], *g-bát* ‘pull’ [BIY]; C 4 Gude *butə* ‘to pull out’; 7 Ould *-bàt* ‘arracher’, Mbuko *bébet* ‘éplucher, décortiquer’; E 5 Mig *bítaw* ‘arracher (pieu, arbre)’.

//Sem Arab *btt* ‘couper, retrancher en coupant, ou enlever en arrachant’ [BK I: 81]

60. [*bVt-] > *bVt- ‘to flow, pour’: W 2 Mpn *bwét* ‘to pour’ (pl. *fo*); C 10 Gizey, Masa, Ham, Musey *bát* ‘couler (fleuve)’ [LexC], Dari *bāt*, Dzpw *bát* ‘couler’.

Derived noun: C 3 Bana *bætəbætə* ‘tiède’, cf. C 2 Klb *bìti* ‘water’ [MuK].

//Sem Arab *nbt* ‘soudre (se dit de l'eau qui sort de la source)’ [BK II: 1185].

Cf. C ***bVt- ‘to pour’:** 3 HF *bìtiyi* ‘to pour’ [Kr]; 7 Zlg *bàbùt* ‘déborder en bouillant’, 6 Mbedam *bàt* ‘verser’ [NdP].

61. [*bVt-] > *bVt- ‘to lay down, drop’: W 2 Ngas *bwot* ‘to lay, place’ [JgN], Mghv *bwot* ‘to drop’, *bwot nkum* ‘to pour libation’ [BIM], Gmy *bwát* ‘to lay smth down, cause smth to lie’ [Hlw]; C 10

Mus *badta* ‘se coucher (le soleil); perdre, tomber de la main’ [ShyM]. //Sem Arab *bṭ* ‘jeter en bas, laisser tomber’ [BK I: 4], *hbṭ* ‘rouler et tomber en bas; descendre, jeter qqn’ [BK II: 1381], Hbr *bṭh* ‘tomber par terre’ [DRS: 59], Berb MC *bdu* ‘tomber, dégringoler’ [NZ: 29].

62. [bVt*-] > **bVt*- ‘to strike’: W 2 Mpn *bwét* ‘to hit, shoot, attack’, 3 Dera *bwátià* ‘a whip’ [NmK]; E 6 Mok *báttè* ‘gifler’ //Sem Arab *hbṭ* ‘jeter qqn, frapper’ [BK II: 1381].**

63. [bVtt*-/**bHt*-] > **b[al]t(t)*- ‘to cut, split’: W 3 Bol *bòttu* ‘to cut through, across’ [GAB], Ngm *bat-* ‘to cut’ [IbN], *bàtô* ‘circumcision’ [NEH], Gera *bâd-mì* ‘to cut off; slaughter’ [SchB] Maka *bòtí* ‘to cut’ [SvP]; C 10 Gizey, Musey *bét* ‘fendre (calebasse)’ [LexC], Mus *bédia* ‘diviser une chose rond pour ouvrir’ [ShyM], Azum *betá* ‘to split and open up a fish (to dry)’; E 6 Mok *báttè* ‘fendre’.**

Deriv. in *-k-*: W 3 Ngm *bàt-kô* ‘to break rope, cut’ [NEH].

//Sem Arab *bṭ* ‘égorger’ [BK I: 143], *bṭ* ‘égorger un animal jeune, gras’ [BK II: 156].

Cf. [HSED №241].

64. **bVt/[t]*- ‘fog’: W 4 Wrj *bata-na* ‘harmattan, mist, fog’ [BlS], Wrj *bata-na*, Paa, Jmb *bata*, Diri *abata*, Miya, Kar *baṭə* ‘fog’ [SkNB], Miya *bàṭə* ‘haze’ [Sch], Paa *bàatáa* ‘fog’ [MS]; 6 Bade *bàatiunai* ‘haze’ C 8 Log *bututu* ‘fog’ [All]; E 4 Barein dial. *bùtùtú*, *bitimbe*, *bítim* ‘fog’; 5b Mubi *bütutú* coll. ‘brouillard’.

65. W **but-* (< **bVt-*) ‘belly, stomach’: 2 Grk *but* ‘in’ [Fl], Ngas *but* ‘belly, pregnancy’ [Fl], *but* ‘belly, womb, stomach, mind’ [JgN], Chip *but* [Kr], Mnt *bæt* ‘Bauch’ [JgC], Mpn *büt*, Mghv *but* ‘stomach, inside’ [BlM], Goem *bàt* ‘belly’ [Hlw], Mush *but* ‘stomach’ [JgO]; 5 Geji *bóoti* ‘guts, intestins’ [C №64]; 7 Fyer *buto* ‘stomach’ [JgR].

//Sem **baṭn-* ‘ventre’: Aram *bṭn* ‘belly’ [JH: 151], Hbr *beten-* ‘ventre’, Arab *baṭin-* ‘intérieur’ DRS: 60].

[JgIb **btl*, AA 2 №76, HSED №350].

66. **bVh*- ‘to paint, draw lines’: W 2 Mpn *bée*, pl. *bák* ‘to design, decorate by coloring’; C 7 Zlg *bàh* ‘enduire, peindre’.

Derived noun: E 5a EDng *bíuyà*; 6 Mok *bíuyè* ‘peinture’.

//Sem Geez *bḥbh* ‘paint, draw, create, make’ [LsG: 91].

67. *bVHVy/w- > bii/buu ‘to cut, split’: W 2 Ngas *bii* ‘to split’ [JgN], Mghw *béé* ‘to dissect, cut, split open’ [BLM], ‘ein Zeichen Machen, eine Linie ziehen’ [JgS], Mush *bée* ‘to crack’ [JgO], Mpn *bée* ‘to snap, divide, cut with a knife’, Goem *bé* ‘to split smth into its parts’ [Hlw]; 4 Kar *búu*, *bəbú*, Siri *búu* ‘to cut, chop’ [SkNB]; 6 Ngz *bíyú* ‘to gut an animal by slitting open its stomach’..

//Sem Arab *byḥ* II ‘couper en petits morceaux (la viande)’ [BK I: 182]. Common origin with ‘to break’ seems evident, Terms for ‘to cut, chop’ and ‘to break’ are often confused in Chadic and Semitic languages

a. ***baHVy- ‘to break’:** W 4 **ba-* ‘to break’: Kar *baa-*, Jmb, Mburku, Miya *ba-*, Tsagu *baa-*, *boo-* [SkNB], Wrj *bəba* ‘to break’ [BIS], Miya *ba*, pl. *bəhiy* ‘to break (pot), split (firewood); *slap*’, *buwyə* ‘to break (stick)’ [Sch]; 7 Mol *bay* ‘to hit’ [FsM], 7a Skn *bava* ‘to break’; E 1 Mobu *báyé* ‘casser (bâton)’; 2 Lele *bøy* ‘casser’, Kaba *bəyi*; 3 Smr *bì* (<*bayi*) ‘to break’ gen. [Jglb].

//Cf. PECush **ba?*- ‘to become desrtoyed’: Som, Sid *ba?-*, Had *bi?* [Ss: 50].

b. ***b/bab- ‘to smash, pound’:** W 2 Mghw *bwap* ‘to knock’ [BLM], Goem *bàp* ‘to finish or destroy smth’, *bwàp* (internal –*w*- pl.) ‘to beat or hit at smth repeatedly’; Ngas *bwaap* ‘to smash, crush’ [JgN]; C 4 Gude *babə* ‘to pound flat’, FB *bwabi* ‘to squeeze’ [Kr]; 7 Mada *ómbòb* ‘aplatis, écraser, tasser’.

Ch **b/bab-* may follow ***baHVy- ‘to break’**. Alternatively, may be taken for a ‘compensatory reduplicated’ variant of Ch **hVb* ‘to destroy, crush underfeet’ [CLD V №101].

68. *bahVw- > *bahʷ- ‘to pierce, prick > sew’: W 7 Bok *bo* ‘to pierce’ [RC], Fyer *bòo* ‘erstecken, erdolchen, ausbohren’ [JgR]; C 6 Buwal *bàw* ‘to pierce’; 7 Muy *ábáx* ‘to prick’, Mofu *báhʷ-* ‘percer’, Baka *bah* ‘coudre, piquer’ [BAS], Mol *bah* ‘to sew’ [FsM].

//Cf. Sem Arab *bwh* ‘cohabiter avec une femme’ [BK I: 181].

a. ***biHVw- > *biyu ‘to pierce’:** W 4 Wrj, Miya *biy-*, Siri *biyu*, Kar *biya*, Diri *buu* ‘to pierce’ [SkNB], Miya *biy* ‘to stab, pierce’, (plurac.) *biyabiya* ‘pierce many, dig many’ [Sch], Paa *bii* ‘pierce’, *biбii* (pl.) ‘to make many holes in’ [MS]; 10 Dari *bīē* ‘piquer’, *bīē tū* ‘se scarifier’, Dzpw *bé* ‘piquer, scarifier’.

Cf. W 2 Mghv *biy-aŋ* ‘to inject, pierce, prick’ (pl. in *-aN-*).
Derived noun: W 2 Mnt *bo* [Fp], Goem *bau* [Hlw] ‘arrow’.

69. *bVH- > bVw- ‘to hide (oneself), conceal’: W 1 Hs *bóoyè, buuyaa* ‘to hide, conceal’; 2 Ngas *bóo* ‘to reserve, keep aside (secretely)’ [JgN]; C 1 Hona *bibye-ŋ*, Boka *bubweya-da* ‘to hide’ [Kr]; 7 Muy *ábu* ‘to hide, avoid’, Mada *ábyá*, Mofu *-b-* ‘(se) cacher’.
Derived noun: W 1 Hs *má-bóoyáa* ‘hiding place’.
//Sem Arab *bā'-at-* ‘endroit couvert, à abri de la pluie’ [BK I: 179].

70. *bVH > bV(h)- ‘to ferment’: C 2 Mrg *bù* ‘to apply fermentations’ [HfM: 21].
Derived noun: W 3 Krf *bwáù* ‘bitter, sharp (taste)’; 7 Mafa *bóh^w* ‘acidulité’.
//Sem Geez *bəh'a* ‘be fermented, turn sour’, *bəhu?* ‘acid, sour’ [LsG:90].

71. *(m)bV, (m)bVh- (pl.) ‘to give birth, germinate, hatch’: W 2 Goem *bé* “see main entry *la* ‘to give birth’ (sg.)” [Hlw], Ngas *bii*, Mushere *bee* ‘to hatch’ [JgN, O], Mpn *bée* (pl.) ‘to give birth’; 4 Jmb *bii* [SkNB]; 5 Zaar *bwaa* [CrZ]; C 4 Nzn *bo, mbúho* [JgIb], Sharwa *mbōe*, Cuvan *mbùn* ‘to give birth’ [HuJ], Jimj *bo* ‘enfanter’ [Mo]; 6 Daba *mbù*, Mina *mb-* [FJ], Buwal *mbaw* ‘to give birth’, Gavar *mbu* ‘accoucher’; 7 Cf. Ould *-bi* ‘s'éclorer’; 8 Makari *ba he* ‘to bear child’.
Cf. W 2 Mghw *bée* ‘new shoot by plants, sprout’ [BIM].
Cf. CCh **mbiw* ‘to give birth’ (including Gude *pàwá* ‘birth’, Jimj *puaan* ‘accoucher’) [GvR].
Derived noun: ***(m)bV ‘child’:** W 3 Bol *bèe*, pl. *dande* [GAB], Krkr *bèe*, pl. *leewày* ‘son’ [GK]; C 6 Mina *mbà* [FJ], Mbedam *mbu* [NdP], *mbo* [LMb], Buwal *mbòo*, Gavar *mbə* ‘child’.
Cf. W 2 Goem *mbú* ‘calf of a cow’ [Hlw], C 5 Pod *biwá* ‘nouveau’.
//Eg *bh* NR ‘gebären’ [EG I: 472], cf. Cush Saho *baahe* ‘bring (forth)’ [Vr], Afar *bah* ‘geben, darreichen; zur Welt bringen, gebären’ [RA]. [HSED №306. Cf. TN №115 (Ch ‘to give birth’ & Geez *bhbh* ‘to paint, draw, portray, create, make’ [LsG: 91]).

72. *bVH- ‘to rise, to mount’: C 4 Bch *bu* ‘to mount’ [Kr]; 10 Masa *bè* ‘monter sur’ [CC]; Cf. 3 FK *mbá* ‘to raise, resurrect’.

Redupl. ***bVbV**: W 3 Ngm *bàabà* ‘above’ [NEH]; C 3 FG *bwuvu* ‘to lift’ [Kr]; 7 Mofu *-bábiy-* ‘voletier, sautiller; hop’. //Sem Arab *nb*? ‘être haut, élevé’ [BK II: 1178].

73. *bVHVy- ‘to be bad, evil (spirit)’²⁶: W 3 Pero *bóu* ‘devil’; C 1 Gbn *bibà*, Gaa *biba* ‘evil’ [Kr]; 3 FK *bay* ‘bad’; 4 Gude *bwàyi* ‘bad, evil’; 8 Bud *abi* ‘schlecht sein’ [LkBd], Log *mbáawee*, *mbáwe* ‘to be bad’ [LkL]; 10 Dzpw *bái* ‘mal, mauvais’; E 5a Bid *beyò* ‘méchanceté’; 5b Jegu *bayô-t m.* ‘schlecht’; E 6 Mok *bèyyé* ‘bad spirit’.

Derived noun in *m*-: W 1 Hs *má-biyaa* ‘the spirits which are supposed to cause the various forms of hysteria’; 3 Kupto *mbú'yà* ‘whitchkraft’. //Sem Arab *b'w* (*a, i, u*) ‘commettre un crime, se render coupable d'une trahison; atteindre qqn et lui nuire de son mauvais œil; susciter à qqn un malheur’, *ba'w-* ‘crime’ [BK I: 144],

Cf. [TN №144, 324 with alternative etymologies for Ch]. Note Eg *b* ‘Böses’ o. ä. (Sp) [EG I: 410]. However, the existence of the latter form is declined by a number of scolars [see EDE II: 3].

74. C *(n-/?)a)-bVh^w- ‘carp’: 5 Wnd *nabeh^wa* ‘carp’ [Voc]; 7 Ould *ābùh^wá* ‘carpe’, Muy *ábàh^wú* ‘carp’, Mafa *boh^wa'a* ‘gros (poisson)’, cf. Mada *bòhò* ‘petit poisson sec sp.’.

75 *ba/uy- ‘to fill, be full’: W 1 Hs *bìgu* ‘be replete’, *bággà* ‘absolute repletion’, C 3 Bana *bóxá* ‘(se) rassasier’; 5a Lmn *baya* ‘fill up, satisfy’, Hdi *baya-ku* ‘être rassasié, satisfied’. Cf. C 4 Gude *bùyáb* (= *puyəb*) ‘swollen, fat (of cheeks)’.

//ECush Som *buuxay* ‘be full’ [L1S], Rend *buuha* ‘be full’ [PR].

76. *bVY- ‘to dig, enlarge (a hole)’: C 3 FK *vàyá* (regress. assim.) ‘to dig a hole’ 7 Mafa *bobuhw-* ‘élargir (une trou)’; 10 Musey *bùhù*, Lew *bùhù* ‘élargir (trou)’ [LexC]; E 1 Kera *bìg*, *bòg-dé* ‘to dig’.

Derived nouns: a. C 3 Bana *mbày^wá* ‘esp de houe pour creuser le banco’.

b. ***bVY-** ‘hole’: W 3 Krf *bòyó* ‘hole’ [SchB], Tng *buga* ‘window, opening’, 1 Hs *bìgaa* ‘a cave’. Cf. CLD V №253. ***yVb-** ‘hole’

Derived noun in *-m*- (or a loan): E 6 Mok *bìugimé* ‘précipice, caverne’.

//Sem Arab *bh*? ‘creuser la terre, un puits, jusqu'à ce qu'on arrive à avoir de l'eau’ [BK I: 91]. For Arabic-Kera see [TN №104].

²⁶ On the semantic shift ‘bad, evil’ > ‘evil spirit’ in Chadic languages see [StM].

77. *bV_y^w- > bV_y^w- ‘to hide, to cover’: W 4 Diri *bágwá* ‘to hide os’ [SkNB]; C 4 Bch *bóò* (< **boyo*) ‘to hide’ [JgIb], FB *b^wuy* FM *b^wùya*, Nzn *bòxən* ‘to hide’ [Kr] 5-5a Pod *bəh^wá* ‘cacher’, Lmn *mbaya* ‘to cover’ [Wff], Chn *bòya-boyà*, Gava *bùyà*, Dghw *bəyù-nayà* ‘to hide’ [Kr], Gdf *bòyà* to hide, cover [KimG]; 6 Mina *bàh* ‘to hide’ [FrJ], Daba *bōh* ‘(se) cacher’, Buwal *bàx* ‘to hide’; E 1 Ndam *búgō* ‘incuber, couver’; 3 Tum *bāg* ‘cacher’.

Derived noun: W 1 Hs *má-bágáaa* ‘a place where a person conceals himself fort the purpose of killing an animal’.

Possibly, a metath. variant of **hVwVb-* ‘to hide (o.s.), to lie in ambush’, see [CLD V №302]. Cf. №69 ***bVH- > bVw-** ‘to hide (oneself), conceal’.

[CCh **bay^w*- ‘to hide’ [GrR].

78. *bV[h]- > bVh/y- ‘to go (away)’: C 5 deriv. in *m-*: Lmn *mbəya* ‘move, migrate’; 7 Mada *ábáhá* ‘sortir de chez soi, aller en visite’, E 4 Mawa *bea-ŋ* ‘partir, aller’; 7 Mubi *bów* ‘partir, aller’ [JgM].

//Cush Som *bah-* ‘to go out’, Arb *beh-* ‘go out’, Om Zaysse *bay-* ‘migrate’, Yemsa *bey* ‘leave’ [LmW: 311].

[Cush **bah[h]*- ‘go away, go’ + Ch ‘to go’ [Dolg: 318], for Cush and Ch ‘to go’ see №1].

79. *bagVw- ‘to cut (down, in-two)’: W 2 Mpn *bák* ‘to slice’ C 7 Mofu *-bəg^w-* ‘partager, diviser, couper en deux’; E 5a Mig *bàagò* ‘terrasser, abattre’. Cf. W 3 Bol *bàgùr* ‘to split palm trunk’ [GAB].

//Sem Arab *baga'a* ‘trancher (d'un coup de sabre)’ [DRS: 43], *b^gg* ‘fendre le ventre avec le couteau’ [BK I: 140].

80. *bug- ‘to pour water’ E 5a EDng *bìgō* ‘arroser, verser de l'eau’, Bid *bìg* ‘puiser de l'eau’.

Intensive stem ***bug(bug)- ‘to pour (out, to empty)’:** W 1 Hs *bùbbugà* ‘to bubble or well up or out (spring of water)’; E 3 Tum *bāg* ‘verser (pour vider), vider (en versant)’, Ndam *bágâ* ‘verser (dans); jeter (eau)’.

//For a possible cognate cf. Sem Arab *bḡy* ‘verser une pluie abondante (se dit du ciel, des nuages)’ [BK I: 147].

81. *bug-/*HVbVg- ‘to thresh, to crash’: W 1 Hs *bìgaa* ‘to beat,

strike, thresh by beating with a stick'; 3 Bol *bugi* 'threshing' [GAB]; C 8 Lgw *bugu-wun*, Kus *bagu* (< **Hbg*) 'to thresh, beat (grain)' [Al]; 9 Mnj *bugi* 'casser (avec les dents)', Mlw *bìgí* 'croquer'.

Derived verb: W 3 Bol *bàgìdu* 'to do second pounding of grain' [GAB].

Derived noun: W 1 Hs *má-búgáa* 'the place where corn is threshed', *mábùgii* 'one who is engaged in threshing corn'.

//Berb Shilh *bbeg* 'broyer, écraser, presser, fouler à pied' [NZ: 33].

a. E 3 ***big-** 'to slap': Ndam *bigâ* 'frapper (avec la main ouverte), gifler', Tum *mbig* 'gifler'

//Sem Arab *hbq* (i) frapper avec un bâton' [BK: 365], Cush Beja *bag* 'ohrfeigen, einen Puff, Stoss geben' [RBd].

82. *bVg- ‘to put down, descend’: C 5 Dghw *bùga-nà* 'to put down' [Kr]; 7a Skn *bágá* 'to put down' [DSk, ThS]; E 2 Tob *bágà* 'mettre, poser', Lele *bògè* 'mettre'; 5a Bid *beeg* 'descendre'.

Note W 4 (< ?**a-bVg- ?**) Miya *baga* 'to kneel, squat' [Sch].

For Bid < AA **bQ* see [TN № 111].

83. *(HV)bVg- ‘to surround’: W 1 Hs *bágayaa* 'to go round'; *bàgoo* 'surrounding anything it is desired to catch'; 6 Duw *viigo* (v- < -b-) 'to surround, go around'; E 1 Kera *bigí* (< *HbVg-*) 'entourer'.

Cf. W 5 Guus *bàgo* 'communal hunting' [CrG].

//Sem Arab *hbq* (i) 'entourer, cerner, assiéger' [BK I: 365].

84. E *bag- ‘to begin, start’: 4 Mawa *baga-η* 'commencer'; 5a WDng *bàggè* 'se mettre à, commencer', *bàggiyè* 'appataître'.

Deriv.: C 10 Dari *bágà* 'morning'; E 1 Kera *bàbàgi* 'morgens'.

//Sem Arab *nbq* 'paraître; surgir, s'élever' [BK II: 1186], Ug *bgy* 'to reveal, show' [DUL: 215], Om Wolt *beg-ott-* 'to wake up' [LmW: 316].

85. *bag- ‘sheep, goat’ (possibly. *bag- pl., *mbag- sg.): W 2 Mpn *mbák* 'sheep'; 4 Diri *bægʷu-nži* 'male goat' (*nži* 'male') [SkNB], C 4 Gude *bágá* 'sheep', FJ *bágà*, FM *bágə*, FB *bagə-n*, Mwl *mágá-tí* [Kr], Bch *mbaga-to*, Bata *bágé* 'sheep' [JgIb], Bata *bagay* 'goat' [Bn]; 7 Baka *tə-mbák* 'brebis' [BAS]; E 3 Smr *báge* (pl.) 'goat' [JgSib].

Cf. C 10 Marba *bégè* 'animal domestique, richesse, biens', Masa, Musey, Lew *bégè* 'richesse, biens' [LexC]; E 4 Sok *bóogo* 'Haustiere' [Luk].

//Cush agaw *bäg-a ‘sheep’: Bilin, Kemant *bäga*, Xamta *biga*. “The word also exists in Kunfäl, *bagi*” [ApAg], Xamir *begā* [RCh], Om Kafa *baggoo* ‘sheep’ [RK], Shin *baggoo* ‘sheep’ [Cer: 411]. Note Sem Geez *baggəf* ‘sheep, ram’, Tgr *bəgguf*, Amh, Gafat *bäg* [LsG: 88], with a discussion on the origin of the root: Eth vrs. Cush. According to [Dolg: 39], Cush forms passed to Ethiosem. Berb Ahag *ăbagug*, Air *abăgog* ‘jeune mouton, Ghat *abagug* ‘mouton châtré’ [NZ: 32]. [Dolg: 39; AA 2 №101: Cush, Om, Berb, HSED №173].

86. *bag- ‘chief’: W 1 Hs *báagè* ‘a great warrior’; C 3 Higi Moda *mbage*, Higi Wula *mbagə* ‘chief’ [Meek]. Note W 2 Goem *baga* interj. ‘respectful form of greeting addressed to a chief or elder’ [Hlw].

May cognate with the next issue:

W ***bVg-r/n- ‘big’:** 2 Mpn *bàgág* ‘big’, Chip *bagani* ‘large’ [Kr]; 6 WBade *àvgar* ‘tall, long’; C 7 Merey *bàgʷär* ‘grand’.

//Sem Geez *bagara* ‘grow, become physically developed’, Amh *bäggärä* ‘become physically developed’ [LsG: 89]. Differently (Hs, WCh 2 and Sem Arab *bgg* ‘engraisser’) see in [TN №62].

87. *bVg- ‘hut, cabine’: W 1 Hs *bàagaa* ‘a stable’; 3 Maka *bèggè* ‘room’ [SvP]; C 2 Mrg *byàgù* ‘compound of a woman without husband’ [HfM: 29]; 8 Makari *boga* ‘granary’ [AlM]; E 3 Ndam *bugo*, Smr *bogaw* ‘house’ [Bn]. Cf. C 7a Skn *bəgə* ‘throne room’.

a. ***bag- ‘fence, wall’:** 3 Krkr *baagàu* ‘town wall’; 6 WBade *bàagàn* (def. form *bàagà*) ‘town wall’, Duw *baagà* ‘wall around the town’; E 5a Mig *bùggò* ‘clôture en paille’.

Cf. W 1 Hs *bángóo* (< *bag-n-) ‘a wall of any kind’ and the following forms (borrowed from Hausa?): W 3 Krkr *bango* ‘(round) mud wall of a hut’ [GK], Bol *bongo* ‘(round) wall of a hut’ [GAB]; 6 GBade *bàngàu* ‘mud wall’; C 2 Bura *banggo* ‘mud wall, mud hut’ [BlB]; 3 FK *bòngù* ‘wall of room’, Bana *báywà* ‘mur de maison sans toit’; 5 Mlg *bángó* ‘Mauer’; E 4 Mawa *bwaŋga* ‘mur d'une case’.

88. *bug- (< *bVHg- ?) ‘belly’: W 4 Wrj *bugi-na* ‘stomach, belly, pregnancy’ [BlS], Kar *bigi* ‘belly’ [SkNB]; C 4 Gude *mbìgò-rénà* ‘cow's foetus’; 5a Hdi *mbuya-mbuya* (< *m-buHg-, cf. Arab) ‘stomach’.

//Sem Arab *b̥g* ‘fendre le ventre avec le couteau’, *bḁig-* ‘ventre

fendu’ [BK: 140], Cush Afar *báguu* ‘Bauch’ [RA], LEC **bag-*/**bog-* ‘belly’: Saho *bogu* ‘belly’, Bayso *bog* ‘abdomen, belly’ [SsB: 38].

For Cush-Goem see [TN №68].

Cf. W **baka* ‘stomach’: 2 Goem *dà-bák* ‘stomach’ [Hlw]; 3 Bol *bàakà* ‘stomach of ruminant’ [GAB], Ngm *bàaka* ‘stomach (internal organ)’ [NEH]; 6 Duw *bàakà* ‘belly, esp. large and protruding’, GBade *bakà* ‘stomach’, WBade *bàka-n* ‘belly’. A loan?

89. *bVg- ‘(open) place’: W 1 Hs *bìgee* ‘a place; a broad road’, *báagájé* ‘an open space in front of Emir’s compound’; C 2 WMrg *uvùgi* ‘place’ [Kr]; 5 Lmn *bàgà*, *bùgà* ‘place, spot’, *bùgò*, *bògò* ‘meeting place, village, compound’ [Wff].

//Sem Arab *bāg-* ‘voie, grand route’, magh. Dial. *bāga* ‘grand espace’ [DRS: 50].

a. E **bag-* ‘arable land’: 2 Lele *bàgày* ‘zone inondable’; 5a Bid *bagiyàw* ‘terre arable’

//ECush Gide’o *boga* ‘field’ [LmW: 316].

The following isogloss may be cognate with the main root (or derived from): C 10 *?*abag-* ‘bush area’: Musey *bàgìèy*, Lew *’ábágèy*, Marba *’ábágèy* ‘brousse près des cases’ [LexC], Azum *abagaya*, *abagai-da* ‘the bush area’.

90. E **bag-* ‘locust, criquet’: 4 Barein (dial) *bòkkínà*, *bokge*, *bòggé* ‘criquet’; 5a WDng *bàgà* ‘locust’, Mig *bággu*, Bid *bágó* ‘criquet’; EDng *bāgā* f., *bāgò* m., 5b Brg *bàgáy*, Tor *bage* ‘sauterelle’, Jegu *bágó* ‘Heuschrecke’. Note 2 Kaba *bagbag* ‘spider’ [HmK].

a. E 5 **bVg-* ‘to jump, hop’: WDng *báágé*, EDng *bàagē* ‘bondir sur, sauter sur’, 5b Mubi *bìigí* ‘sauter’ [JgM].

//Consider ECh as a possible metath. variant of Sem **hgb* > Ug, Hbr *hgb* ‘locust’, JudAram *hgb* ‘hopper, locust’ [DUL: 352], namely: **hVgVb-* > *gVb-* > *bVg-*.

91. **bak-* ‘to beat, to pound’: W 2 Ngas *bak* ‘to slap, beat’ [F1], Mpn *bàk* ‘to pound, beat’, *bák* ‘to flatten’²⁷, Mghv *bák* ‘to strike, pound’ [BLM] 3 Pero *búkkò* ‘to knock’; 5 Zaar *búk* idf. ‘thud’ [CrZ]; 7 Sha *”bak* ‘to drum’ [RC]; C 5 Wnd *bak* ‘to beat’ [JgIb].

²⁷ For Mpn ‘to flatten’ < AA **bQ* ‘thin, flat’ see [TN №310].

//Berb Shilh *bbek* ‘damer, écraser, piler, battre les grains’ [NZ], Om Basketo *bukk-*, Doko *bok-* ‘hit’ [BnO: 327]. Cf. Sem Arab *bkk* ‘presser, serrer dans la foule; briser, casser’ [BK I: 52].
[HSED №194].

a. ****bVk-* ‘to push, drive’:** C 2 Bura *buka* ‘to push’ [BlB]; 7 Ould *bàkay* ‘chasser, poursuivre, conduire’; E 5a EDng *bòké* ‘abstossen’ [Ebb].

Deriv.: C 4 Gudu *mbúk-sì* ‘to push’; E 5a WDng *bòk-čiyè* ‘chasser, écarter’.

//Sem Arab *bkbk* ‘bousculer, refouler’ [DRS: 63].

b. ****?abak-* ‘to drive away’:** C 5 Dghw *baka*, Wnd *?abòkà* ‘to drive away’ [Kr]; E 5a Bid *bàk* ‘bousculer’. Cf. 7 Mbuko *mbakay* (compensatory prefixation) ‘faire sortir’.

//Sem Akk *abāku* ‘to send (away), lead (animals), bring along, drive away’ [CAD a: 3].

92. **bak(w)-* ‘to look for, hunt’: W 3 Krkr *bàku* ‘find, seek out’ [GK]; 5 Plc *mbæk* [Cs №713], Bogh *bayon*, *bak*, Mng *bùk* ‘to look for’ [Cs]; 6 Duw *bàako* ‘to look for’; C 2 Bura *baka* ‘to look for, hunt’ [BlB]; 5 Wnd *báká* ‘to chase’ [FW], Mlg *báka* ‘jagen, Tiere an-, einfangen’; 7 Ould *-biükʷáy* ‘chercher à’.

93. **bVk-* ‘to grill, roast, cook on fire’: W 1 Hs *bábbàkaa* ‘to make a big fire; burn, broil meat’; 3 Bol *bòkku* ‘to burn, roast’ [GAB], Ngm *bàka* ‘to burn, grill, roast, cook in contact with fire’ [NEH], *bok-* ‘to roast meat (on open fire), to burn smth.’ [IbN], Maka *bòkkò* ‘to burn’; 5 Dott *bak* ‘to burn, roast, grill, fry’ [CrD], Jimi *bukái* ‘burn (of fire)’, Plc *bak* ‘to light fire’, *bayáy* ‘to roast’ [Cs №№763, 764, 876]; 6 Duw *àpko* (devoicing in a cluster), WBade *bàku* ‘to roast, grill directly on fire’, Ngz *bàkú* ‘to burn, roast, grill’; C 2 Klb *bágù* ‘to cook’ [Kr]; 8 Zina *bàkʷà* ‘to cook sauce’; E 4 Mawa *bəgə-ŋ* ‘griller’, Ubi *bògin* ‘rôtir’; 5b Jegu *biik* ‘to roast’, Tor *bikuk*, Mubi *bàgé* ‘rôtir, griller’ [JgM] (voicing by assim. with the initial).

Derived noun: C 7 Mbuko *mbak* ‘cuisine’. [JgIb **bk* ‘roast’].

//SOm Hamer *baka* ‘to cook’, Galila, Dime *baak*, Hamer *bak* ‘fireplace’ [BnA].

Cf. C 7 Baka *vákay* ‘brûler’ [BAS], Mol *vakay* ‘burn’ [FsM], Zlg *váká* ‘griller’; 6 Daba *vékʷ* ‘chaud’. Possibly, < **?Vbak-* ‘brûler, to burn totally’.

94. *buk- ‘to decay, ferment’: C 2 Bura *buka* ‘to decay’ [BLB].
 Deriv. in *-t-*: W 6 Duw *bùk-čùwo* (< *buk-tu*) ‘to become fermented, sour (esp. grain)’, GBade *buk-tâ* ‘carrion’; C 2 Bura *buk-ta* ‘to cause a thing to decay’ [BLB].
 //Sem Amh *bokkā* ‘fermenter’ [DRS: 64], HECush **bok-ees-* ‘to ferment’ > Had, Kamb, Sid (< Amh?).

95. *bV_{k(k)}- ‘to cultivate’: W 2 Goem *bæk* ‘to hoe a piece of ground’ (apud [TAS: 14]); 3 Tng *buke* (Ch **-k-* > *-g-*, Ch **-kk-* and **-k-* yield *-k-*) ‘to till fields (last time before harvest)’; C 7 Mol *bokay* ‘to cultivate 2nd time’ [FsM].
 //Berb Wrgl *bukk* ‘s’effondrer dans un trou, se creuser; tourner, renverser la terre’ [NZ: 47], ECush Oromo *bakkee* ‘field’ [Grg]. Cf. Omoto **bok-* ‘to dig; sow’ [BnO: 141].

96. *bV_k- ‘to bend’: W 5 Zaar *bok* ‘to be bow-legged’ [CrZ]; C 5 Pod *baka* ‘to bend over’.
 Derived noun: **(m)bak-* ‘a bow’: W 1 Hs *bàakaa*; 2 Mghw *mbùká* ‘bow’ [BLM]; 5 (< Hausa) Saya *bakaa* [Cs], Guus *bàkà* [CrG]; 6 Ngz *àbák* ‘hunting bow’, Duw *bak*; C 6 Daba *bāk*, Musgoi *bak* [JgIb]; E 1 Kwn *bākáy*, *bàgáy* [JgIb] ‘bow’. Cf. C 7 Merey *bè-mbék* ‘faucile’.
 Deriv. in *m-* ‘to be bent, curled’: C 10 Azum *mboka* ‘to be curled’.
 [JgIb *bk-* ‘a bow’].

97. *bV_k- ‘to anger’: W 5 Zaar *mbok* ‘be angry’ (Refl.) [CrZ]; E 1 Mobu *bágáy* ‘être fâché’, Ngam *bàgàye* (-*g-* < **-k-* is regular) ‘se fâcher’. Cf. 5a Bid *bókòr* ‘se fâcher’.
 Derived noun **bak-* ‘anger, bitter(ness)’: C 10 Dzpw *bàk* ‘amer, colère’; E 2 Kera *bàbàgi* ‘bitter’.

98. *buk- ‘hut’: W 1 Hs *búkkà* ‘a hut made of stalks or grass’ (> 3 Maka *búkkà*); 2 Ngas *puk* ‘a rough hut made of grass’ [Fl], Goem *puk* ‘any temporary hut or shelter’ [Hlw] (regress. devoicing of the initial), note Grk *buk* ‘house?’ [BIY]; 7 DB *pûk* ‘grass hut’ < W 2 [RC]; C 7a Skn *buk* ‘council room’ .

For WCh < AA **buk* ‘reed, straw’ see [TN №88].
 //Berb Ahag *abuk* ‘petite tente’, Ayr *ebuk* ‘case misérable’ [NZ: 47]. A Chadic loan?

The following isogloss is probably cognate:

- a. W 6 Ngz *bákâ* = *bágâ* ‘shelter made of vertical poles with cornstalks or mats over the top’//ECush dull Tsam *babko* ‘nest’ [ATO].
- b. Possibly cognate with the next root (similar linkings of ‘hut’-‘shelter’-‘cover’ occur quite often in Chadic languages)
- b.***Vk-** ‘a cover’: W 3 Bol *bàakè* ‘type of woven tray’ [GAB]; 6 Duw *bùko* ‘clay pot cover’; C 3 FK *bèkà* ‘scabbard, sheath’; 10 Dzpw *bòk* ‘carapace’, Masa *bùka-d* ‘cache-sex f.’ [CC].

Derived verbs: W 4 Paa *bakù-sù* ‘envelop’.

C 6 Daba *mbük* ‘(se) couvrir’; cf. Mafa *mbókw-* idf. ‘plaquer sur’

99. *bV_k(V_w)- ‘be without, be empty’: W 6 Ngz *bìukú* ‘to lack, be without’; C 6 Buwal *bòk^w* ‘to empty out’; 7 Mol *bokay* ‘be bald’ [FsM]. //Sem Geez *bkk*, *bakka* ‘vanish, disappear, become void; useless’, *bky* ‘vanish’ Tna *bäkki* ‘just so, useless’, Amh *bäkkäkä* ‘be destroyed, useless’ [LsG: 94], Cush Saho *booka* ‘bald person’ [Vr], Afar *baka* Saho id. ‘die Glatze’, Afar *baka-s*, Saho id. ‘ausreissen, kahl machen’ [RA].

The next three isoglosses may follow one and the same AA root

bqq*/bqw*, **wbq* (metath.) ‘to be empty, to perish’ (a root variant of **bVkk*-/**bkw*).

- a. C 7 Muy *ábák* ‘to leave (uncultivated)’//Sem Hbr *bqq* nif. ‘be wasted (land, country)’ [KB: 144].
- b. C 6 Mina *bák* ‘to die’ [FrJ] //Cush Ongota *baq-* ‘to die’ [SaT], Sem Arab *wbq* ‘périr’ [BK II: 1477].
- c. C 5 Wnd *báaka* ‘nothing’ [FW] //Cush agaw **bVqw-* ‘empty, bald’ [ApAg: 154].

100. W *bak-t- ‘to winnow’ (derived verb in *-t-*, complete action): W 1 Hs *bákà-čee* ‘to winnow corn to remove bran and chaff with the assistance of circular trays’; 3 Krkr *bákà-tu* ‘to winnow using a tray’ [GK]; 6 Ngz *bák-tú* ‘to winnow coarse flour from fine using fai-fai’, WBade *bák-tu* ‘to winnow with faifai or using large pan’, Duw *bák-to* ‘to winnow by flipping grain in a tray’.

Cf. 4 Paa *béeki-tù* ‘to fan’ [MS]; 5 Dott *biká-t* ‘to fan’ [CrD].

101. W *bVHV_k- ‘to despise, scorn’: W 2 Ngas *bak* ‘to despise, condemn’ [Fl], *bák* ‘to despise’ [JgN], Goem *bàk* ‘to disregard, despise

smth' [Hlw], Mghw *bák* 'to despise' [BlM]; 3 Kupto *bòkéy* 'to disdain, contempt; to jest', Ngm *bòkô* 'scorn, treat disrespectfully' [NEH], cf. Bol *bowu* (<*bVkw-*) 'to despise, scorn' [GAB].

//Sem Aram Syr *b^aīkā* 'mot honteux, déshonnête' [DRS: 74].

102. *bVyV_k- ‘to separate’: W 5 Zaar *byak* ‘to separate’ [GrZ]; C 10 Azum *mbeka* ‘to be separated’ (Refl.).

Derived noun: W 2 Goem *pyàk* ‘dividing, fork of a tree’ [Hlw].

//Cush Sid, Kamb *beek-* ‘divide, distribute’ [Hds].

103. *[^a]bV_k- ‘to seize’: C 10 Dari *bōk* ‘saisir avec un instrument’, Dzpw *bók* ‘pincer’, Musey *mbekka* (compensatory prefixation) ‘saisir’ [ShyM]; E 2 Kera *béké* ‘pincer’.

For a possible noun deriv. see W 6 Ngz *bákumák* ‘tweezers’.

//Cush Beja *'abik* ‘nehmen, anfangen, ergreifen’ [RBd]. For Beja, Dari and Sem **bqq* ‘plunder’ see [TN №75].

104. *HVbV_k- > bV_k- ‘to attach, sew’: W 5 Geji *bák-ti* ‘to sew’ [Cs №862]; C 10 Dzpwi *bók* ‘attacher, lier’. Cf. C 4 Gude (replacing prefixation) *mbakə* ‘to patch (clothing)’.

Derived noun: C 7a Skn *ma-buk* ‘grass cord (three strands plaited)’.

//Sem Arab *hbk* ‘tisser bien, lier, serrer’ [BK I: 369].

105. *(HV)bV_k- ‘to throw’: W 2 Mghv *bak* ‘to throw’ [BlM]; C 2 Hld *vàkà* [Kr], Kl^b *vàkà* [MuK]; 6 Mina *bák* ‘to throw’ [MGr]; 10 Musey *bukka* ‘semer en éparpillant’ [ShyM]. Cf. W 3 Bol *bùk*, *mbùk* idf. ‘indicates falling or dropping’ [GAB].

Deriv.: C 1 Tera *mbuki* ‘to throw at’ [NmT].

//Sem Soq *hbk* ‘lancer en bas’, Akk *abaku* ‘renverser’ [LsS: 140]. Cf. SCush rift Irq *buk* idf. ‘sound of smth dropping down’ [MQK].

For a root-variant cf. W 1 Hs *bíuukà* (< **bwk*) ‘to throw down’; 2 Mghv *bùk* (< *buk*) idf. ‘sound of a ripe fruit falling on the ground’ [BlM].

106. *m-bV_k- ‘to knead’: W 3 Kupto *mbèktéy* ‘to knead, stir with a stick’; C 7 Mofu *-mbámbák^w* ‘mettre en boule (argile), arrondir’; 10 Azum *mbukà* ‘to knead (bread, clay)’.

//Sem Arab *bwk* ‘former des boules d’argile en la roulant entre les deux mains’ [BK I: 180], ECush Burji *bukk-aaw* ‘be kneaded’, *bukk-ays-* v.

caus. ‘to knead’ [SsB]

For a root variant cf. C **bVk*- ‘to make lump, ball’: 6 Buwal *bok^w* ‘to make lump’; 8 Makari *baki* go ‘to make a ball of smth’; 9 Mnj *bək* ‘boule’.

107. *HVbV_k- ‘to attack’: W 2 Goem *bok* ‘stir up a fight’ [Hlw]; 5 Jimi *abkakəi* ‘to attack’ [Cs №643]; 7 Mbuko (derived noun, compensatory redup.) *babak* ‘lutte’.

//Sem Akk *abiktu* (*apiktu*) MB ‘decisive defeat, massacre’[CAD a: 52].

108. *buk- ‘cow, ox; cattle’: C 5 Gamergu (Mlg) *buk-sánugaa* ‘cow’ [Bn]; E 1 Kera *bèké* coll. ‘Vieh, Reichtum’; 4 Sok (Bedanga) *buuko* ‘ox’ [Bn], Sok *búgoo* ‘Kuh, Rind, Ochse’ (AF *búko*) [Luk], Saba *boko* ‘cow’. Cf. C 7 Mada *bòk^w* ‘gros morceau de viande’.

Cf. C 7a Skn *mbukul* ‘yearling heifer’ [DSk].

//Berb Nefusa *byu* ‘veau, calf’ [NZ: 83].

a. E 4 **bik-* ‘wild animal, meat (of a wild animal)’: Mawa *bik* ‘viande’, Saba *biki* ‘animal’, Ubi *biigì* ‘viande’, *big-boori* ‘animal sauvage’, Sok *bikii* ‘Fleisch’, *biika mangadii* ‘walde Tiere’ [Luk].

109. *bV_k- ‘shoulder, wing, arm’: W 3 Krkr *bàka* ‘full arm, upper arm, foreleg of animal, wing’ [GK], Tng *bokbók* ‘wing(s), armpit’, Glm (*kà*)*bàggá* ‘shoulder, wing’ [SchB]; 6 Duw *bii-biyòk* ‘arm from wrist to armpit’; C 2 Bura *bubuku* ‘wing’ [BlB], Chb *bìbìkù*, Kl^b *bàbùgu*, Mrg *babùgu* (dissim.), Hld *būgu* ‘wing’ [Kr]; 3 Bana *bəkəbəkə* ‘aile’, FK *máká* (if <*mbəkə*) ‘wing’; 5a Lmn *bábákí* ‘wing(s)’ [Wff] (cf. Lmn *bəbuki* ‘wing’ [HmG]); 10 Dzpw *bikè* ‘shoulder’, Musey *bik-ja* ‘bras, stylo’ [ShyM], Ham, Mus, Gizey, Lew, Marba *bik*, Masa *bigì* ‘bras’ [LexC], Masa *bagiya* ‘arm’ [Jglb], Azum *bikà* ‘complete arm and hand’, *bigi-dá* ‘the upper arm’; E 4 Sok *bák-t-um* ‘deine Schulter’ [Luk].

110. *bawV_k-/*bV_kV_w- ‘k of dance’: W 2 Ngas *b^wak* ‘dance at dead (king, leopard)’ [Fl]; C 5a Hdi *baku* ‘dance during the full moon’, Lmn *bák^wá* ‘kind of dance’; cf. 7 Ould -*bük^wáy* ‘caracoler (á cheval)’.

Denom. verb in *'a-:* C 7 Mada *óbbòk^wó* ‘faire une danse de combat’.

111. C *bV_k(V_w)- ‘animal skin’: 7 Mafa *búk^wáy* ‘peau’, Zlg *bàg^wa*

‘peau d’animal’; 10 Dari *bōk* ‘leather used as loincloth’, Gizey, Lew, Ham, Marba *bàk* ‘peau de animal’, Musey, Lew, Marba *bàk* ‘cuir’ [LexC], Azum *baka* ‘animal skin’, *babaka* ‘skin (human)’, *bagayana* ‘animal skins’, *baga-huda*, *baka-huda* ‘goat skin’, Cf. C 4 Gude *bùkè-rá* ‘men’s leather loin cloth’.

Derived verbs ‘to skin’: W 5 Bgh *pwok* (regular devoicing) ([Cs]; E 4 Barein (dial) *bákko*, *bakko*, *bákko*.

112. C **bVwVk-* ‘cheek’: 4 Bch *bwòkøy* ‘cheeks’ [Kr], Bata *bōāké* ‘cheek’ [Jglb]. Cf. W 6 Ngz *bàakà* ‘edge; off to the side’.

a. cf. C 8 Kus *pagam* (< **bakam*) ‘cheek’, Log *mbagam* ‘cheek, jaw’ (with a body-part’ suff.) [AlK, AlL].

//HECush **bok’o* ‘cheek’: Gede’o, Burji *bok’o*, Sid *boko* ‘cheek’, *bok’o* ‘full cheek’ [Hds], Burji *bok’-óo* ‘cheek, side, riverbank’ [SsB]. The correspondence of velars (Ch –k- vers. Cush –k-) is irregular.

113. C **biyak-* ‘jackal, fox’: 5a Lmn *mbikà* ‘jackal’ [Wff]; 7 Gis *biika* ‘Fuchs’, Muy *mbikì* ‘fox’; 10 Gizey *biyàk*, Masa, Ham, Musey, Lew, Marba *bàyàk* ‘renard des sables’ [LexC].

//Cf. Berb Shilh *abayuy*, *bayuy* ‘renard’ [NZ: 82].

114. **bV(k)-* ‘big’: W 3 Krf *bà-bòkkò*, Grm *bókkó* [SchB], Bele *bókkò* ‘big’, Bure *bókkò* ‘big’; C 4 Bata *bakaa* ‘large’ [Bn].

C **m-bak-* ‘to increase’ (denom. verb in *m-*): 5 Lmn *mbaka* ‘to increase, add’ [Wff]; 7a Skn *mbák-* [ThS: 68]; 9a Gdf *mbàka* [FrG]. Cf. 3 FK *mbàkásà* ‘to get the major share in s.th.’.

Note **bak-* ‘many’: W 4 Wrj *bakʷai* [BIS]; C 4 Mwl *bákà* [Kr]. Cf. W 2 Grk *bak-ta* ‘everything’ [Fp].

115. **bVHVk- > bVk-* ‘hot’: C 7 Muy *bāk bāk* ‘very hot’, cf. also: W 2 Mpn *búk* ‘hot ashes (one use it to cook olives)’; 3 Ngm *mbuk-dò* ‘hot ashes’ [NEH].

//Sem Arab *bu’kūk-at-* ‘chaleur’ [BK I: 143].

116. **bak-* > **bak-* ‘to split, break’: W 2 Mghw *bàk* ‘to share, divide, split, be cracked’ [BLM], Ngas *bak* ‘to cut with a knife, make a slit’ [Fl], *bàk* ‘to cut, incise’ [JgN], Mpn *bāk* (pl.) ‘to separate, crack, chop, split’; 5 Dott *bwák* ‘to carve wood’ [CrD]; 7 Fyer *bàk* ‘spalten, hauen

(Holz, etc.)’, Bok, DB *bâk*, ‘brechen, schneiden’, Sha *bâk* ‘zerbrechen; schlachten’ [JgR], Bok, DB *bâk*, Mangar *bâkə*, Sha *bâk*, Mindat *bakáŋ* ‘to break, smash (pot)’, Bok *bak*, Fyer *bâk*, Monguna *bâk*, Mundat *bak yic* ‘to split, chop into pieces’ [RC] (cf. C 10 Dari idf. *bùk bùk* ‘en petits morceaux’); C 5 Dghw *bákà* ‘to chop’ [JgIb]; C cf. 10 Dzpw *bùk* ‘prendre en cassant’.

Derived noun: W 3 Pero *bákù* ‘big hammer of a blacksmith’.

Deriv. W 6 Duw *bâklo* ‘to crack open, hatch’, GBade *bâklu* ‘to hatch’. //Sem Geez *baqawa* ‘to separate, split, open, break, cut’, *bqq* ‘split, break up (clods of earth)’, Arab *bqq* ‘split’ [LsG: 101], Arab *b̄q* ‘égorger (un chameau)’, Aram *bəqa*, Ug *bq*, Hbr *bāqa* ‘to split’ [LsG: 100], ECush Brj *bak*-, Oromo *bak*-*ak*-, dull *pak* ‘split’ [SsB], ECush **bak*- ‘to crush’ [Ss: 48].

For Geez *baqawa* ‘separate, split, open’, *bəqwat* ‘yawning, opening the mouth’, Amh *bäqqäqä* ‘to gape, be opened’ [LsG: 101] see: Ch W 5 Dott *byáak* ‘to yawn’ [CrD]; C 10 Dzpw *bùk* ‘ouvrir’; E 4 Barein **bákkó* ‘to open’.

For Eg *bqy* ‘to open’ *hapax* see [EDE II: 328].

[AA 2 №94: Sem, Ngas, Mghv, Fyer, Bok, HSED №200].

117. *bu(HV)k- > buk- ‘to dig’: W 5 Jimi *búkái* ‘to dig’ [Cs №787]; C 4 Gude *bukə* ‘to find hole while digging’. Cf. 7 Mol *babək* idf. ‘idea of burying’ [FsM].

Derived noun **bVHVk*- > *bVVk*-/*bVk*- ‘hole’: W 1 Hs *báakáa* (<**bHk*, while AA **bk* > Hs *bk*) ‘a hole under the ground’; 3 Ngm *bùkò*, Krkr *bukò* ‘escape hole of squirrel or other rodent’ [NEH, GK]; C 8 Makari *bakasi* ‘hole for planting corn’ [ALM].

[JgIb **bk* ‘hole’].

//Sem Arab *b̄q* ‘creuser (un puits)’ [BK I: 143], Om Wolt *bookk*-, Malo *bok-k*-, Dac’e *bookk*-, Zayse *book*-, Ari *book-s*- ‘to dig’, Kac’ama *bok*- ‘to cultivate’ [LmW: 316], SCush Dah *bóokku* ‘hole’, *bukkul*- ‘to fill a hole’ [TD] cf. W 5 Jimi *bukál* ‘pierce a small hole’ [Cs №802].

118. *bVk- > buk ‘to uproot, weed’: W 1 Hs *bábbàkee* (**bakbak*- > *babbak*- > *babbak*, -*k*-> -*k*- due to incompatibility of two emphatics) ‘to uproot’; 2 Ngas *búk* ‘to clear the farm at an early stage’ [JgN], Mpn *bōk* ‘to weed’. Cf. 7 Ould *bùkʷ* idf. ‘arracher, tirer d’un coup’.

a. ***mbuK- ‘to weed, extract’:** W 7 Bok *mbuk faláh* ‘Unkraut

ausreissen, to weed' [JgR], Karfa *mbûk* 'to weed' (cf. Bok *mbûk* 'to take away') [RC]; C 10 Azum *mbokà* 'to extract'. //Cush Oromo *bukk'-is-*, Kamb *bukk'-is-* 'pluck', Sid *bukk'-is'* 'weed, pluck', Gide'o *bukki-ass* 'harvest' (with Caus suff.), Om Kac'ama *buk'-* 'harvest the grain', Wolt *buucc'*- 'to pluck, harvest, mow' [LmW: 314], Burji *babak'-* 'tear' [SsB]. Sem Tgr *bäk'a* 'écorcher, déchirer' [DRS: 63].

- 119. **bawVk-* >**ba/uk-* ‘to peel, shell (with hands)’:** W 3 Krkr *bààbàku* 'to pare, peel' [GK], Pero *báakò* 'to rub off, scrape'; 5 Zaar *bok* 'to peel, shell with hands', Dott *bókoo* 'to shell, peel' [CrZ,D], Grnt *bʷaage* 'to peel' [Cs]; C 10 Dzpw *búk* 'écorcher avec les mains'. //Sem Geez *baqʷʷa* 'to scratch, tear, scrape, rake' [LsG: 100].
a. For a root variant cf. C 6 Buwal *bòkʷ* 'to itch', Mbedam *vivək* (< *bivVk* < *bibVk*) 'cicatrice' [NdP].
//Sem Geez *bak* 'scab, wound' [LsG: 93],

- 120. *bVk-* > **bVk-* < ‘to appear’:** W 3 Krkr *bika* 'to appear' [GK]; E 5a EDng *bòkē* 'apparaître, surgir', Bid *book* 'apparaître, pousser'. //Cush Kamb *ba(k)ki y-*, Sid *bakk'i iy*, Alaba, Had *bakk'-* 'to wake up', Gide'o *bakk'i hiy* 'to wake up, be conscious' [LmW: 316]. For ECh < AA **bk* 'to shine' see [TN №76].

- 121.**bVk-* > *b/mbVk-* ‘to speak, tell’:** C 10 Gizey, Masa, Musey, Ham, Lew, Marba *bák* 'dire, parler'; E 4 Sok *bókio* (AF *bógbogi*) 'sprechen, reden', *bók-ti* 'Sprache' [Luk]. Cf. W 5 Jimi *mbwokai* 'to call' [Cs №694].

- 122. W **bVwVk-* < **bVwVk-* ‘to rot (of sores)’:** 2 Mghv *bwak* 'eitern (Ekzemen), to fester (rashes of the body)' [JgS], *bwák* 'pimples or boil developing into sore' [BIM], Mush *bwak* 'to swell up; rashes on the body' (apud [TAS:39]); 5 Bogh *buuk* 'rot' [Cs]. Cf. 3 Bol *bùbbùk* idf. 'swelling and dispersing' [GAB]. //Sem Akk *baqīqāt* 'pourriture' (?), Aram Jud *b̥aqīqā* 'pourri', Syr *baq*, *bāq*, Mand *baq* 'pourrir' [DRS: 79], Cush agaw **bäqw-* 'curds, go sour' [ApAg: 154], Som *baqay* 'be afraid; be curdled', *baqa* 'spoiling of milk, fermentation; fear' [L1S], ECush Had *buk'-* 'rot' [SsB: 42], Burji *buuk'-* 'to rot (of food)' [Hds].

[AA 2 №98: Sem, Cush, Mghv, HSED №308].
For a root-variant cf. №94. ***buk-** ‘to decay, ferment’.

123. E 5 *baak- < Ch *baak- ‘to be afraid’: Bid *bàak*, Kaj *báaki*, Mubi *bàagá* (regular voicing) ‘avoir peur’, Bid *bàakò* MM *bàakò* ‘peur’.

//ECush **bak-* ‘be afraid, run away’: Som *baq-ad-* ‘be afraid’, Burji, Oromo *bak'-ad'* ‘run away, flee’ [SsB], cf. Sem Tgr *bäqa* (bqy) ‘être en danger, être blessé’ [DRS: 78]. [AA 2 №53].

124. *bas- ‘to count, pay, spend’: W 3 Bol *mbos-*, Gera *mbèsè-mí*, Glm *mbás-àalá*, Krf *mbási* ‘to count’ [SchV]; 5 Bogh *bis* [Cs №696], Grnt *basi* ‘to count’ [Cs]; C 8 Bud *báahé* (*h* < **s* is regular) ‘zählen’, *beháge* ‘bezahlen’ [LkBd], Kus *basi* ‘to count’, Makari *basi* ‘to pay; payment’ [Al]; 10 Musey *bassa* ‘dépenser; la dépense’ [ShyM], Azum *basà* ‘to spend money’; E 2 Lele *bási* ‘rater, dépenser, manquer’.

Derived noun : W 1 Hs *báši* ‘debt’; 3 Krkr *básò* ‘loan’ [GK]; 6 WBade *basá-n* ‘loan’.

//ECush Oromo *buusa* ‘collect (money)’ [Grg]. For possible cognates cf. Sem Arab *bss* ‘expédier, faire des envois de marchandises dans différents endroits’ [BK I: 123], Akk *būšu* from OB on ‘valuables, goods, movable property’ [CAD b: 353]. Semantically not very convincing.

125. *bus- ‘to spend (day, year); period of time (day, year)’: W 3 Bol *bùši* ‘daytime period, spending the day’ [GAB], Krf *búsá* VN ‘to spend the day’ [SchB]; C 9 Mlw *bizi*, Mnj *bizi* ‘passer l’année’, Mnj *bəzaa*, Mbara *bizàa* ‘année’ (regressive voicing); 10 Masa *busá* ‘l’année, saison’ [CC], Musey *basara* ‘an, année; passer la journée, année’ [Sch], Gizey, Masa *bùzà*, Ham *bèzà*, Musey *bàzà*, Marba *bìzà* ‘passer l’année, passer la journée’, Lew *bàzà* ‘passer l’année’, *bizà* ‘passer la journée’ [LexC], Guzey *bùs*, Masa *bùzà*, Ham *bèzè*, Musey *bàzà*, Lew *bázá*, Marba *bizà* ‘âge, an-année’ [LexC], Azum *ba/iza-dà* ‘year; living space’.

126. *bVs- ‘to dry up’: W 1 Hs *bíušée* ‘to dry (up), become thin, 2. *bíusa* ‘drying up of corn-plants’; C 3 Bana *mbásá* ‘tarir, secher’; Cf. W 7 DB *bas*, Monguna *bás lá* ‘to dry up (in sun)’ [RC].

//Sem Arab *ybs* ‘devenir sec, sécher’ [BK II: 1621], Amh *bäšäbbäšä* ‘être sec, fané’, ECush Som *basay* ‘be burnt to ashes, dry up’ [LIS].

127. **bas/c-* ‘to drag, pull (out)’: W 4 Paa *mbasù* ‘to pull out’ [MS]; 6 Ngz *bàazú* (regular voicing) ‘to sweep along ground (gown), drag on ground’; E 5a Mig *báabisò* ‘trainer’.

/Cf. ECush Oromo *baasa* ‘take out, off’ [Grg], Sem Aram *basbes* ‘arracher, déchirer’, Tgr *baš'aa*, Tny *bas'e* ‘arracher’ [DRS 72f].

128. **bus-* ‘to separate bran’: W 1 Hs *biusaa* ‘to separate bran from pounding grain’.

Derived noun: W 3 Ngm *biuzù* ‘bran’ [NEH]; E 5a Bid *bóssà* ‘balle de mil’

//ECush Som *buushe* ‘chaff’ [LIS].

129. **bVs-* ‘to stop, end, lessen’: C 3 Bana *bàšì* ‘annuler’; 4 Gude *bwasee* ‘to stop doing’; 7 Muy *ábàs* ‘to stop, lessen’; E 1 Kera *bèsé* ‘sterben, verenden’; E 5a Bid *bées* ‘diminuer’.

Deriv in *m-*: W 4 Miya *mbəši* ‘to extinguish’ [Sch]; 5 Dott *mbis* ‘to put out (fire, light), switch or divide off’ [CrD]; C 5a Gdf *mbàsà* ‘to finish’ [KimG].

For a possible derived noun cf. E 2 Lele *bìsà* ‘gibier mort’ (note Kera ‘to die’).

//Sem Arab *bss* au Pass. ‘être amoindri, aminci’, *bhs* ‘amoindrir, ôter, diminuer’, II ‘diminuer’ [BK I: 123, 90]. For the semantic link between ‘to lessen’ and ‘to stop (> to end)’ see C 7 Muy.

The following forms may be cognate:

C 8 Bud *boohé* (-*h-* < -*s-* is regular) ‘alt’ [LkBd] //Eg *bsw* Med ‘Krankheit?’ [EG I: 476], ECush Som *boos* ‘smth very old and worn out’ [LIS]

130. E 5 **ba(wV)s-* ‘to moisten’: 5a Bid *bòos* ‘tremper’, EDng *bóosé* ‘humidifier, mouiller’, Mig *bàasò* ‘mouiller’, 5b MM *bas-kà* ‘mouiller’, Mubi *bàsé* ‘mouiller’, *bèesí-t* ‘mouillé’ [JgM].

a.*(m)*bus-* ‘to wash, bathe’: W 4 Paa *mbisù* ‘to wash’ [MS], Miya *bəsə* ‘to wash, bathe’, *ábəsə* ‘bathing’ [Sch], Wrj *bəs-* ‘to wash’ [BIS], Siri *bəs-*, Mburku, Tsagu *bus-*, Kar *bəsə*, Jmb *mbəs* ‘to wash’ [SkNB]; C 10 Dzpw *mbis* ‘se baigner, se laver’, Musey *mbussa* ‘laver,

le lavage' [ShyM], Peve *mbis*, Hede *mbis*, Lame, Zime *mbus* 'to wash' [Shy], Gizey, Masa *mùs*, Ham, Musey, Lew, Marba *mbùs* 'laver (vêtement), baigner', Azum *mbusa* 'to wash'.

//Sem Geez *basbasa* 'be wet, be drenched, decay', Tgr *bäsbäsa* 'become moist', Amh *bäsäbbäsa* 'decay, be wet' > Cush Kemant *bäsbäs* 'be wet' [LsG: 109]. For Geez 'to decay' cf. C 2 Bura *bušira* 'to decay' [BLB].

b. C 10 *bis- 'to rain': Musey *bissa* 'pleuvoir sans cesse' [ShyM].

Derived noun: *(*a*)*bis-* 'rain': Gizey *bàbìs* (compensatory redupl.), Masa, Ham *bís*, Musey *bís*, Lew *'abís* 'pluie continue' [LexC], Azum *abisa* 'a rain which lasts most of the morning or from 5 until noon'.

//Sem Arab *bss* VII 'couler', *basbas* II 'couler, s'écouler (se dit de l'eau)' [BK I: 123, 124], cf. Berb Ghad *ébbes* 'asperger/semer à la volée' [NZ: 129]. For cognates of Eg *bsy* 'hervorquellen (Wasser); heraustreten; sich ereignen' see [EDE II: 310-313].

131. *bVyVs- 'to despise': WCh 2 Ngas *byaas* 'to ridicule' [Brq], *byás* 'to despise, ridicule, dislike' [JgN], Mghw *bèes* 'verachten' [JgS], *bèes* 'ingratitude', *bèes pò* 'contemptuous statement' [BLM] (a loan from Arabic cannot be excluded, differently see in [TN №40]); C 10 Azum *bisà* 'to ignore'.

Deriv. in *-t-*: C 2 Bura *buš-ta* 'to despise, to count as nothing' [BLB].

//Sem Arab *bys* (*i*) 'être hautain et injuste envers les autres; opprimer, tyranniser' [BK I: 183], *'abasa* 'to despise, offend', Geez *'abbasa* 'sin, do wrong, commit a crime, be guilty, offend', Tna *'abbäsä* 'act wrongly', Amh *abbäsä* 'to commit a sin' [LsG: 5f]. For Eth 'to commit a crime, sin' cf. W 1 Hs *báasáasà* 'raiding and plundering', C 2 MrgC *vàsò* (<*abas-*) 'fault'.

132. *(*m-*)bVs- 'to be bad, ugly' > 'stingy': W 2 **bis*: Ngas *bis* 'wickedness, badness, evil' [Fl], *bəs* 'bad, wrong', *bəs* 'stinginess' [JgN], Mghv *bíš* 'be bad, ugly, stingy' [BLM], Mpñ *bíš* 'bad, ugly', Mushere *bis* 'badness, ugliness', *bis* 'greedy, stingy' [JgO], Mnt *bis* 'bad' [Fp], Chip *bis* 'evil' [Kr], cf. Goem *pís* 'to become stingy' [Hlw]; 4 Paa *mbásí* 'ugly' [MS], Miya *mbásá-kə* 'evil, bad, ugly' [Sch], Paa *basan*, Siri *bəsəmi*, Diri *baasaa*, Miya, Kar *mbásá-kə*, Mburku *mbasoosə*, Tsagu *bašiin* 'ugly, bad' [SkNB]; 5 Guus *viis* 'bad, ugly' [CrG]; 7 Kul *"būši"* 'schlecht' [JgR], DB *mà fwaš*, Bok *má fwaši* 'bad,

ugly’, Mundat, Karfa *má fwaši* ‘bad’ [RC] (regressive devoicing); C 8 Zina *visa* ‘bad, evil’ (regressive spirantization of the initial), Makari *abase* ‘bad’ (apud ISv: 27]).

Denom. in *?a-*: *?abVs-* > *bVs-* (cf. Geez): W 7 Fyer, Kul *bwiš* ‘schlecht werden’ [JgR]. Cf. C 8 Makari *base* ‘to be bad, be ugly’ (probably, < ‘become bad, ugly’) [AlM]. Note E 2 Tob *básá* ‘maudire’.

For W 2 ‘stingy’ cf. W 1 Hs *báašii* ‘the first unpleasant odour of anything which is going bad’, cf. *buša-buša* ‘a person of dirty habits’; 7 Mafa *bišek* ‘rôt’.

//Sem **b's* ‘to be bad, to smell bad’: Akk *bīšu* ‘malodorous, of bad quality, evil’ Bogh, SB [CAD b: 270], OffAram *b'yš* ‘evil, bad’ [HJ: 142], Hbr *b's* ‘to stink’, Arab *bi'sa* ‘very bad he is!’, Sab *b'sI* ‘harm’, Qat *b'sI* ‘harm, damage, misfortune’ [KgG: 427], Sab *b'sI* ‘harm, damage, misfortune; malice’, v.n. *b'sI* ‘être mauvais, mal’ [SD: 25], Geez *bə'sa* ‘be bad, harmful, irritable’, *?ab'asa*, Caus. (cf. W 7), Tgr *bə'əsa* ‘be angry’, Amh *basä* ‘get worse’, etc., common with Cush Bilin *bīs* ‘be angry’, Augni *bas* ‘be bad’ [LsG: 82f]. ECush Som *baas* ‘problem, difficulty, evil’ [LIS], Sid *busha* ‘bad’ [Hds], *bush-* ‘to become bad’ [KS], Oromo *boosessa* ‘ugly’ [Grg].

[GrL: 301 - Sem, Cush, ngas; AA 2 №111 - Sem, Cush, WCh 1, 2, 4, HSED №160 **ba'as-* ‘be rotten, bad’].

133. *bVs/c-²⁸ **‘to cut, tattoo’:** W 3 Bol *bas-* ‘stechen’ [LkB]; 5 Zul *boši* (if not < **boti*) [Cs №786] ‘to cut off’; E 5a WDng *bèèsè* ‘faire une coupure de la peau’, EDng *bésé* ‘schröpfen’ [Ebb], *bésé* ‘scarifier, faire une entaille dans la chair, saigner’ [Dj].

Derived noun: WDng *béésò* ‘cicatrice sur le visage’, EDng *béesé* ‘la tatouage, la scarification’.

//Cush Hamir *bas-* ‘to cut (skin), Einschnitte in die Haut machen; tätowieren’ [RCh], Om Kafa *bāš* ‘to slaughter’, Anfilla *bas* [RK], Berb Ghat *buys*, Ahag *buys* ‘être blessé’, Ahag *sebbuys*, Ghat *sbuys* ‘blessier (faire une plaie)’ [NZ: 146].

For Cush and Berb see [AA 2 № 82, HSED №235].

134. *bVs- ‘kind of food made of corn’: W 1 Hs *bàšii* ‘food made with wheat’; 4 Paa *bíši* ‘mush’ (vowel assm.) [MS]; E 5a EDng *bòsíyó*

²⁸ In all the languages supporting this entry reflexes of AA **s* & **c* have fallen together as *s*.

‘petit mil entier; bouilli ou cru’.

//Berb Qab *absis* ‘millet’ [NZ: 129], Sem Arab *basīs-at-* ‘farine, pain sec émiété et délayé d’eau; fromage séché réduit en farine, mêlé de beurre ou d’huile’ [BK I: 124], Cush Bilin *basáū*, Saho *bíuša*, Oromo *basó* ‘Speise aus frisch geröstetem Getreide’ [RB], cf. Eg *bs* Nä ‘Art Brot’ [EG I: 476].

[AA 2 №83: Hausa and external cognates].

135. *bus- ‘he-goat’ > bus-Vr- ‘big he-goat’ (on *-r-* pl. in AA see [MR]): W 1 Hs *bùnsuruu* (<*n-busuru*, with a suff. of sing.) ‘a full-grown he-goat’; 2 Grk *bùus* ‘he goat’ [JgC]; 3 Ngm *buzuru* ‘male goat’ [SkH: 26], rather a loan from Hausa; 5 Bogh *buus* ‘he goat’ [JgIb]; C 3 Bana *bàs(à)* ‘bouc’; 5 Pod *bišera* ‘grand bouc’.

//Cf. Om Shin *bushayá* ‘Kleinvieh’, Cush Oromo *bushaa’e* [LmSh]. For an alternative etymology for Grk ‘he goat’ see [TN №116].

136. *bVs- ‘upper part’: W 1 Hs *bísà* ‘above, upon, the top’; C 2 Bura *basi* ‘eaves of a house’ [BIB]; 3 Bana *bàsà* ‘haut du bras’; 6 Daba *bàsā* ‘l’épaule’; E 5a WDng *bís-kirò* ‘haut de la nuque’.

//Cf. ECush E 3 Som *baso* ‘crown of the head; bald’ [LIS].

137. *bus/c- (sg.), *bis/c- (pl. or coll.) ‘fish’: W 3 Bol *bùsì* ‘catfish’ [GAB]; E 4 Sok *búsii* [Luk], Saba, Mawa *bus* (masc.), Ubi *biúze* [Alio]; 5a Mabire *bis* [HuJ], 5b Jegu *bîš* pl., ‘fish’, *bís-ó* sg. ‘fish’ [JgJ], Brg *bís-ó* ‘poisson’ (-o sg.).

//Eg *bss* ‘Art Fische’ NE [EG I: 477]. [HSED №317].

138. *b[a]s/c- ‘field’: C 10 Dzpw *bàsà* ‘jachère’; E 4 Sok *bosso* ‘Acker’ [Luk].

Deriv. ***m-bas- ‘earth’:** Gizey *màs*, Ham, Musey *mbás*, Lew, Marba *’àmbás* ‘terre nourricière’ [LexC], cf. Azum *ambassa* ‘the country, town, area’.

Denom. verb in *?a-* (Caus): ***?abas- > bas- ‘to farm’:** C 7 Ould *-bàs* ‘cultiver’, Mada *ábás* ‘biner, cultiver (les champs)’.

Derived noun: W 3 Bol *baasa* ‘fallow farm’ [GAB], Ngm *bàasà* ‘farm reclaimed for planting after having lain fallow’ [NEH].

139. *bVs/c- ‘stomach’: W 2 Ngas *bušay* (pl. in *-y*) ‘the bowels’ [FI],

mbušàj [Kr], *bùšàj* [JgN] ‘intestine’; 6 Ngz *bàazi* ‘belly (external area)’, Duw *bàzi* ‘belly, stomach; contence of an animal's stomach’, GBade *bàazi* ‘belly (human, animal)’, WBade *bàazaan* ‘belly’; C 2 Bura *busu* ‘stomach proper’ [BIB]; 4 Gude *bùsá* ‘unidentified internal organ next to intestines’; 7a Skn *mbus* ‘navel’; 9 Mnj *bizim* ‘estomac, panse’.

//Cush Ong *buusa* ‘belly’, Hamer *busa* ‘lower belly’ [FLO].

140. C*bVs/c- ‘a cover’: C 6 Daba *bās* ‘la bâche; case, cover’; 7 Gis *basay* ‘Schurz aus Rinde (für Frauen)’, Merey *bas-kwar* ‘cache-sexe’; 9a Gdr *buse* ‘cloth’ [FrG].

Denom. verb: C 5 Lmn *mbusa* ‘to cover’ [Wff].

//Eg *ħbs* Pyr ‘verkleiden, verhüllen’, *ħbs* Pyr ‘Kleid, Tuch, Hülle, Decke’ [EG III: 64], Sem Arab *ħbs* ‘retenir, arrêter; emprisonner; envelopper et serrer une chose dans une autre’, *ħibs-* ‘barrage en pierre ou en bois; couverture, pièce d’étoffe’ [BK I: 367].

141. E *bis- ‘mosquito’: 4 Mawa *bisi*, Ubi *biziyo* (regular voicing); 5a WDng *bísà*, EDng *bisi* coll. Mig *biisè*, Bid *biisa*, 5b Jegu *biisó*, Brg *bisiy-ó* m., Mubi *bís* f. Cf. C 7 Muy *embúžey* ‘insect’.

142. *abis/c- ‘magic item’: W 3 Krkr *abís* ‘incense for driving off spirits’; C 6 Daba *vèsī* ‘l'écorce qu'en met dans les champs contre les voleur (= fétiche)’; 7 Mofu *vesé* ‘pierre magique’.

a. ***bawVs/c- ‘kind of spell, charm’:** W 3 Krkr *bàawùso* ‘a charm that makes one invisible’ [GK], Bol *biusìusu* ‘a spell causing inability to move or speak’ [GAB]; C 2 Bura *bwasim* ‘charm given to a chief’.

b.E 5a Mig *bísírré* ‘sagesse, possibilité de deviner’, *bísírí-ncé* ‘devin’.

143.*baz- ‘to kill, to fight’: W 3 Tng *baaze*, pl. *base*, *bapse* ‘to kill and eat small animals (lion)’; C 3 Bana *mbòz(́)* ‘lutter’; 7 Mada *ábàz* ‘abattre, tuer’ (pl. obj.).

Derived noun: C 2 Bura *buzuza* ‘fighting spirit’ [BIB].

144. *baz- ‘to envelop’: W 4 Wrj *baz-*, Diri *baza*, Kar *bazə*, Tsagu *vəza* ‘to envelop’ [SkNB]; C 7 Mofu *-mbəz-* ‘envelopper’.

Derived noun: ***baz- ‘a cover’:** W 1 Hs *bánzáa* (< *baza-n-*) ‘a leather cover for a saddle’; C 10 **bazw-* > *bažw-*: Dzpw *bážèò*, Musey *bažaw-*

na ‘couverture’ [ShyM].

//Sem Arab *bzz* ‘enlever, emporter’ > *bazz-* ‘étoffe, en gén., vêtements, hardes’ [BK I:120], (dial.) *bazz-*, *bazz* ‘cloth, étoffe’ [Bel 1 №26].

a. For a possible cognate cf. CCh 7 **?abVz-* ‘**roofing straw**’ (as a ‘cover’): Mada *évèž* ‘chaume, paille du toit’, Zlg *váza* ‘paille’, Muy *bízbiz* ‘old roofing straw (on a house)’.

145. *H-/m-bVz- > *bVz-/mbVz- ‘to drip, flow’: W 6 Ngz *bàziyú* ‘to spray water from mouth’; C 5a Hdi *mbəzay* ‘to drip (liquid)’, 7 Mofu *bábəz-* ‘soudre, couler en petite quantité’. Cf. 3 Bana *b(i)ži* ‘to drink in small gulps’.

Derived noun: W 4 Wrj *baza-na* ‘overflowing, water overflow’ [BlS].

//Cf. Eg *bzy* MR ‘hervorquellen (vom Wasser, das herauskommt aus seiner Höhle u. ä.)’ [EG I: 474], Berb Qab *bbezbez* ‘être mouillé, trempé’ [NZ: 147].

[HSED №256].

146. C *bVz- ‘evil’: C 3 Bana *bzà* ‘malédiction’; 5 Dghw *bùzà*, Gava *bìzà* ‘evil’ [Kr].

//Sem Arab *bzbz* ‘tourmenter qqn’, *bzw* IV stem ‘faire du mal à qqn’ [BK I: 120, 123], Geez *bazbaza* ‘caluminate, offend, despise’ [LsG: 117], cf. C 4 Gude *mbəzə* ‘to argue, quarrel’.

The next root may cognate (terms for ‘bad’ and ‘spoiled’ are confused in Sakun).

a. **C *bVz- ‘to spoil’:** C 2 Bura *bzi* ‘to spoil’ [BlB]; 3 Bana *bəzə* ‘sick, ruined, dead’ [Hof]; 7a Skn *bəz*, *bəzan* ‘to spoil’, *bəz* ‘bad, ugly, spoiled’. Cf. 7 Mol *mbəzen* ‘to spoil’ [FrO], ‘to destroy’ [Fsm].

//Sem Aram *bzz*, Phn *mbzt* ‘to spoil, to kidnap’ [JH: 149], Hbr *bzz* ‘to spoil’ [KB: 116].

b. **C *bVz- ‘to spoil’ (intensive stem?):** 4 Gude *bəzə* ‘to make mistake, spoil; be angry'; 5 Pod *bəzá* ‘to spoil, destroy; gâter’.

Cf. [HSED № 355].

147. C *bVz- ‘to sharpen, rub, polish’: 3 Bana *mbəzə* ‘lisser, aplanir’; 5 Mlg *báza* ‘verreiben’; 6 Mbedam *bəz* ‘aiguiser’ [NdP]; 7 Mbuko *bébez* ‘affiler, aiguiser’, Muy *ábəz* ‘to sharpen, rub’, Ould -*bəz* ‘aiguiser’, Mada *ábəz* ‘aiguiser, lisser, polir’,

Derived nouns: 6 Mbedam *bəze-η* ‘claw’ [LMb]; 7 Mada *mè-bèz*

‘pierre à lisser, polir’.

148. *bVz- ‘hairy (goat)’: W 1 Hs *búzíuu-bùzìuu* ‘very hairy’, *búzúrwáa* ‘long-haired goat or sheep’; 3 Krkr *bàzaa* ‘hairy sheep or goat’ [GK], Ngm *bàzâ* ‘hairy goat’ [NEH].

a. ***buz-** ‘**beard**’ (= ‘hair of...’): W 5 Zaar *bubzàj* ‘beard’ [CrZ]; C 4 Gude *mbúzée-mínə* ‘beard’; 7 Mafa *bozo-ngway* ‘menton, barbe; C 10 Azum *bizei-nà* ‘goat beard’.

149. *bVz- ‘(hot) day’: C 9 Msg *bezaa* ‘Tag’ [LkM], W 6 Bade *òbzò-ku* ‘today’.

Deriv. in *-r*- pl.: W 1 Hs *bázárá* ‘the hot season’, 4 Paa *bázara* ‘hottest part of dry season’ (< Hs).

Note also W 3 Tng *baza-k* ‘perspiration, sweat’
//Cf. Eg *bzy* ‘Name eines Sonnengottes’ [EG I: 475].
Cf. [HSED №268].

150. *bVz- ‘child, fruit, seed’: C 7 Mol *babəza* pl., Muy *bòzà* ‘children’, Mofu *bəzey* ‘enfant, fils; petit, jeune; graine, noyau’, *bábəzá* ‘fruit, petit’, Mada *mbòózò* ‘jeune enfant (3-8)’ (note Zlg *bizé* ‘fleurir’); E 6 Mok *búzú* ‘semence’. Cf. 5 Hdi *vəzi'uwa* ‘newborn baby’ (*u'a* ‘breast’).

//Berb Wrgl *tabza* ‘enfants, jeunesse’, MC *bezz* ‘enfanter’, Shilh *bezzi* ‘enfant au berceau, nouveau-né’ [NZ: 147].

Note C 2 MrgC *bzár*, Bura *bzär* ‘child’ [BlB] and W 4 Jmb, Mburku *vazar* ‘seed’ < sem Arab *bazr-* ‘semences, fils’ [BK I: 121].

151. *bV[c]- ‘to press, strike’: W 2 Mghv *byayas* ‘to destroy, flatten’ (internal *-k-* pl.) [BlM]; 3 Bol *bèeši* ‘beating (drum)’ [GAB]; C 9 Mnj *bizi* ‘presser’, Mlw *bizi* ‘appuyer, masser’ (regular voicing), Mbara *bàs* ‘appuyer’; E 5a EDng *bàasē* ‘giffler’. See footnote 29 (№133).

//Sem ***bss** (< AA ***bcc**): Aram *b'sas* Mand *bsus*, NHbr *bāsas* ‘fouler aux pieds’ [DRS: 73], Hbr *bws* ‘tread down’ KB: 114] cf. ECush Burji *buus-* ‘to thresh’ [SsB].

152. *(HV)bVc- ‘to spit’: W 2 Ngas *bes*, *bis* [Fl], *bəs*, *byás* (pl.) ‘to spit’ [JgN]; 4 Miya *bəcə*, Mburku *vuc-* ‘to spit’ [SkNB]; C 3 FK *vùsə* ‘to spit out’; 4 Gude *vushi* ‘to spit out; be blown in (of rain)’ (*v-<-b-*),

E 3 Sib *básá* ‘to spit’ [JgSib], cf. C 7 Muy *ébišēy* ‘to sneeze’.

153. **b/a]ç-* ‘to break, crash; split (to go into pieces)’: W 2 Gmy *bás* ‘to break or cut a piece off’ [Hlw]; 5 Zar *bés* ‘to take a piece off’ [CrZ]; C 2 Mrg *bàcà* ‘break into small pieces’ [HfM: 128]; 4 Gude *búc* ‘hitting with a club, breaking off with force’; 6 Buwal *bac* ‘to crash’; 7 Zlg *bac*, *bac* ‘tuer; briser, romper, casser’, Mafa *bac-* ‘casser’, Ould *bācāy* ‘se couper en deux’, *-bēcēy* ‘couper en deux morceaux’; 10 Azum *básá* ‘to break, collapse, crack (of huts)’, Masa, Mus *bás*, *bés* ‘couper (fendre)’ [LexC], Mus *bassa* ‘découper la viande ou la peau en lanières’ [ShyM]. Cf. C 7 Mol *mbocoy* ‘to beat lightly’ [FsM].

a. **C **bVç-* ‘to press, squeeze’: 3 Bana *básá* (-s- < -ç- is regular) ‘presser, extraire beaucoup de liquide’; 5 Pod *bičə* ‘serrer’; 5a Lmn *əbica*, Vemgo *bicu* ‘to squeeze’ [HmG], Lmn *bica* ‘to press (through sieve)’ [Wff]; 7 Zlg *buc* ‘masser, petrir avec la main’, Mafa *mbác-* ‘piétiner’, Muy *ámbac* ‘to crush an object’.**
bVç- > bVc- in C 5, 7 by assim. with -ç-. Note Lmn *əbica* [HmG] ~ Lmn *bica* [Wff] and Zlg *bac*, *bac* ‘tuer; briser, casser’. Secondary emphatization (*bVc- > bVc-*) is not regular, note that in a number of languages two emphatics are not compatible in one word.
/Cf. Sem Arab *bṣw* ‘presser (son débiteur en réclamant de lui son dû)’, II ‘rendre eunuque’ > ‘castration’ [BK I: 133].

154. **baç-* ‘to insult, be angry’: W 1 Hs *báatsè* ‘be furiously angry, punt with rage’; C 5a Lmn *baca* ‘to insult’ [Wff]; 8 Log *başı-wun* ‘to insult’, *bişı* ‘an insult’ [AIL].

Cf. W 1 Hs *bíutsáatsà* ‘an ill-tempered, quarrelsome person’.
//Cf. Sem Arab *bays-*, *bīṣ-* ‘malheur, calamite; confusion, trouble’ [BK I: 183].

155. **b/a]ç-* ‘to winnow’: C 8 Makari *boşı ho* ‘to winnow’; cf. 5 Lmn *mbaca* ‘to remove, brush off.’

Derived noun: W 1 Hs *báts'èe-bats'ii* ‘remains, dregs (esp. of threshed corn)’.

156. **bVç-* ‘to gather, fill’: W 1 Hs *báats'è* ‘to fill to brim’; 5 Guus *mbaacá* ‘to gather, collect’, *mbàci* ‘heap’ [CrG]; C 3 Bana *básà* ‘se réunir, rassembler’ (shift of emphasis); 7 Mafa *bič-* ‘rassembler’.

Derived noun: C 3 Bana *bàsəvà* ‘collection, réunion’; 5 Pod *mbəcəca* ‘chose nombreuse’, cf. E 2 Lele *bāsē* ‘entassement’.
 //Sem Arab *bṣ* ‘réunir, ramasser’ [BK I : 132], SCush rift Irq *bats* ‘to store’ [Kies].

157. *bVç- ‘to diminish, weaken’: W 3 Tng *busi* ‘feeble, weak’; 5 Lmn *baca* ‘to diminish’; 7 Cuv *mébècèy* ‘effriter’; C 10 Dzpw *bàcè* ‘faible’. Cf. W 2 Mpn *bées* ‘not enough’.
 //Sem Arab *baṣṣ-* ‘maigreur’, *baṣṣūṣ-* ‘maigre et mince’ [BK I : 142].

158. *bVç- ‘to colour’: W 5 Zaar *mbocá* ‘to paint, decorate (wall)’ [CrZ]; C 3 Zlg *buc* (*dár*) ‘tacher, faire une tache’.
 Deriv. W 1 Hs *báats’á-báats’á* ‘of more than one colour’; 5 Zaar *mbóči-mbóči* idf. ‘variegated’ [CrZ].
 //Sem Arab *bawṣ-* ‘couleur’, *būṣ-* ‘couleur, teint’ [BK I: 178]

159. *bVç- ‘to have diarrhoea’: C 3 FK *mbəcə* ‘diarrhoea’; E 2 Lele *bùsu* ‘to have diarrhoea’
 Deriv. ‘dirtyness’: W 1 Hs *bóotsóo* ‘untidiness; a person guilty of’, *báats’áats’áa* ‘untidy, unpleasant to see’.
 //Eg *bss* Subst. (neben ‘Kot’ erwähnt) [EG I: 477], Cush Beja *bus* ‘Schmutz, Kot; dirt, faeces’ [RBd].
 Cf. AA **bs(s)* ‘to defecate’ [TN №49].

160. C 7 *baç- < Ch *baç- ‘to pour, sprinkle out’: Muy *ábác* ‘to sprinkle water out of bowl using hand’, Mafa *bac-* (+ ‘water’) ‘verser de l'eau pour arroser’
 //Sem Akk *baṣāṣu* lex ‘to trickle’ [CAD b: 134], Arab *bṣṣ*, *bṣ* ‘couler, suinter’ [BK:131f], Berb Shilh *bizzi* ‘jaillir’ [NZ: 155].

161. *HVbuç- ‘stick, iron bar’: W 5 **mbuç-* (compensatory prefixation): Zaar *mbúcu* ‘flail’, Guus *mbùuc* ‘stick, walking stick’ [CrZ, CrG]; C 5 Lmn *búcá* ‘iron bar’ [Wff]; 7 Mafa *búcáy* ‘barre de fer qui servant à payer la dot autrefois’.
 //Sem Ug *‘bṣ* ‘mace’ [DUL: 142].

162. C *biç- ‘to cut-in-two; to tattoo, saw’: 5 Mlg *báca* (ts) ‘Holz sägen; to saw wood’; 9 Mnj *bisi*, Mlw *bísí* ‘déchirer, couper en deux’;

10 Gizey, Lew *bís* ‘inciser, tatouer’ [LexC], Musey *bissa* ‘marquer; *bís iira* ‘balafrer’ [ShyM]. Note **bič-* > *bís-* (shift of emphatization) in C 9-10.

//HEC **boc*'- ‘carve’: Sid, Gede'o **boc*'- ‘to split wood’, Burji *boc*'- ‘to carve’ [Hds].

163. *ba[č]- ‘to sting, shoot’: W 3 Bol *básaa* ‘to sting, shoot, kick’ [GAB], Krkr *básaa* ‘to shoot’, *ba básaa* ‘hunter’ [GK], Maka *bòosáyò* ‘to shoot’, Ngm *basâ* ‘to shoot, sting (by bee, scorpion, etc.)’ [NEH], Bure *bis-* ‘to sting, shoot’, Dera *bòi*, *bui* ‘to shoot, blow (horn)’ [NmK], Bele *bàahú-kò* ‘to shoot’ [SchB]; 5 Grnt *busì* ‘to shoot’ [Cs]; 7 Sha *báč*, Mundat *bač* ‘to shoot’ [JgR, RC], Mundat *báč* ‘to sting (bee, ant, scorpion)’ [RC].

Derived verb in *-k-* (pl.?) W 7 Karfa *bušuk* ‘to shoot’ Monguna *basík* ‘to shoot’ [RC], Richa *bisiky* ‘to shoot (an arrow)’ [JgR],

Derived noun: W 7 Sha *báčaw* ‘arrow’ [JgR]; C 3 Bana *bás-kʷà* ‘flèche jouet d'enfant’.

Cf. W 3 Bol *béeši* ‘attaching with a nail’ (for the same semantic link see W 2 Ngas *pwas* (pl.) ‘to shoot, to nail’ [JgN], note also W 5 Guus *mbiis* ‘claw, nail’ [CrG]).

164. *(m)bVč- ‘to harm, to bewitch’: C 5 Pod *mbeče* ‘exécuter en rite’; 7 Mada *ámbaračà* ‘combiner, fabriquer, ensorceler’; E 5a Bid *bùč* ‘haïr, injurer’.

//Sem Ug *bty* ‘evildoer, wizard’ [DUL: 250]. Ug *t* < Sem **t* < AA *č.

165. *buči ‘flower’: W 5 Jimi *buusáa* [Cs], cf. Bgh *busu-ŋki* [Cs], Dott *busu-lti* ‘flower’ [CrD]; E 4 Saba *bisi*, Mawa *bisu* [RbM], *pisu* [HuJ] Barein (dial.) *bèssó*, *besso*; E a Bid (dial.) *božo* [HuJ], 5b Jegu *buč*, pl. *boče*, Brg *bòoči* pl. ‘flower’.

Cf. W 3 Bol *béeši* ‘coloring the teeth with tobacco-flower’ [GAB].

E 5a Jegu and Birgit forms (newly found and lacking in [CED №26]) point to PCh *-č-*.

//PEC **bis-* ‘color, flower’: Burji *bíš-a* ‘color’, Afar *bis-u*, Oromo *bif-u* ‘color’, Konso *pis-a* ‘flower’, dull Harso, Dobasse *pisakko*, Goll *piso*, Gaw *pisko* ‘flower’ [SsB, AMS], Ong *bisku* [ArTsO].

166. *bVž- ‘to dig’: C 4 Gude *bažə* ‘to dig up (with chopping action of hoe)’; 7 Mofu *-báž-h-* ‘(se) creuser’.

Deriv. C 7 Mol *bažakay* ‘to dig shallow’ [FsM].

Derived noun: W **biž-* ‘grave’: 4 Paa *bìžá* [MS]; 5 Guus *bìšù* [CrG].

167. *bVž- ‘sprout, blossom’: W 1 Hs *bažee* ‘the blossom of the locust-bean tree’; C 7 Mada *bižè* ‘rejeton, repousse’, Ould *bāžā* ‘petit fruit de gombo de fin de saison; rejet de feuilles de haricot, regain, rejeton ou enfant de vieux (fils)’.

//Cf. Eg *bzy* MR ‘herausstreten’ (von Pflanzen, die aus dem Acker hervorkommen), to sprout’ [EG I: 474].

168. *bVt- ‘to dig, bury’: W 1 Hs *bišè* ‘to bury’; 6 WBade *àbłzu* (<*bàtlú*) ‘to dig small hole’, Ngz *bàłzú* (regular regress. voicing), cf. Duw *àpló* (devoicing in a cluster) ‘to dig’; C 2 Bura *bža* (voicing in contact) ‘to bury’ [Kr], Bura *bwała* ‘to plant in hard ground without rain’, *bwałaha* ‘to plant a patch of hard ground’ [BLB].

Deriv. in *-n-*: W 1 Hs *binnè* (*binna, bisna, bizna*) ‘to bury person or thing; fill in hole’; 3 Krkr *bisnu* ‘to plant, sow’ [GK] (< Hs?)

//Sem Arab *nbš* (u) ‘déterer, creuser’ [BK II: 1184], Cush Burji *boosa* ‘grave’ [SsB], Beja *bis* ‘begraben’ [RBd]. Note Arab *nbš* vers. Hs *bisna*.

Cf. [HSED №365].

169. *bat-, *HVbat- ‘to press, crush, break into pieces’: W 5 Zaar *mbat* ‘to press down’ [CrZ]; C 1 1 Tera *bałi* ‘to hit with hand’ [NmT]; 2 Klb *bžà* ‘break’ (voicing in contact) [MuK], 4 cf. Gude *bwa’ałə* ‘to bend edge of tool by striking smth hard’; 5 Pod *bála* ‘to castrate’; 7 Mofu *-bəł-* ‘fractionner, casser (pierre), partager’, Mada *ábbàł* ‘piler, cogner, écraser, casser (noyau)’, Mbuko *bébat* ‘broyer’, Zlg *babat* ‘broyer, concasser’, Muy *ábàł* ‘crush into pieces’; E 5a Mig *bàačò* ‘cogner’ (<**bHt*, **Hbt*, cf. forms with compensatory redupl. – *b-b-t* < **Hbt* - in C 7).

170. W 5 *mbVt- ‘egg’: Zaar *mbú:t* [Cr], Plc *mbwał*, Zul *mbute*, Mng *mboł*, Tala *but* [Cs] Guus *mbòoł*, Dott *mboł* [Cr], Dyarim *bɔłè*. Note *m-* as a suff. of sing.

Denom. verb in *?a-*: W **?a-bàł-* > *babat* (compensatory redupl.) ‘to hatch’: 3 Krkr *bàabàlu* [GK]; 6 Ngz *bàbłú* ‘to hatch out of egg’.

//Sem Arab *byđ* ‘surpasser qqn en blancheur, en éclat’, II ‘blanchir’,

bayd-at ‘oeuf’ [BK I: 183f], Hbr *bēṣā*, Jib *beṣ* Mhr *bēṣayt* ‘egg’, Geez *bys* ‘become white, yellow’ [LsG: 116].
[HSED №354].

171. C 10 *m-but- ‘bull’, ***(m)but-ta** ‘cow’: Musey *mbut-na* ‘taureau, vache’, Ham *mbut bòlò*, Lew *?ambut*, Marba *?amùt* ‘taureau, bovin’, Ham, Musey *bùt-tà*, Lew *?ambùt-tà*, Marba *?amùt-tà* ‘vache’ [LexC]. //SCush rift **batlay* n. coll. ‘young domestic animal’: Irq *batlay* ‘young cows’, Gor *bathay* ‘young sheep and goats’ [Kies].

172. *bat-/bVHt- > *bat- < ‘to break, snap’: W 5 Guus *baté* ‘to snap (a thread)’ [CrG]; 4 Paa *batù* ‘to break, snap’ [MS]; C 5 Pod *batə* idf. ‘casser’; 6 Mina *bét* ‘to break’ [FJ]; 7 Mofu *-bát-* ‘percuter, casser (un os) en tapant avec une pierre, projeter à terre’, Chuv *mébètèy* ‘briser, casser’.

//Sem Arab *b'ḍ* ‘partager, diviser’ > ‘portion’ [BK I: 142f].
Common origin with the next root can not be excluded.

173. *bVt²- > *bVt- ‘to bump, forge’: C 5 Pod *bíté*; 6 Gavar *bát*, Buwal *bát* ‘to forge’, Daba *bít* ‘forger’, mà *bít* ‘le forgeron’ [Lnhr: 9], Mina *bəž-* ‘to smith’ [FrJ]; E 5a Bid *bády* (< *bVt²-/*bVč-) ‘boxer’. //Cf. Sem Arab *nbḍ* ‘battre, être en pulsation (se dit de pouls)’ [BK II: 1184].

174. C *bat'- > bát- < ‘to sprinkle, moisten’: 3 FK *bàbàtə* ‘to moisten, make wet’, Bana *bátlí* ‘arroser’; 6 Buwal *bébet* ‘to sprinkle’ //Sem Arab *bdd* ‘couler, suinter’ [BK I: 133], *nbḍ* ‘couler’ [BK II: 1184].

For a root variant cf. C 7 Muy *bálá* ‘pouring’ and Sem Arab magh. Dial. *bašbaš* ‘suinter (eau)’, Soq *baśah* ‘couler’ [DRS: 88].

175. W bVt- > *bVt- ‘soot, ashes’: W 2 Mpn *bís* ‘soot’, Gmy *bís* ‘charcoal’ [Hlw], Kofyar *bís* ‘soot’ (apud [TAS: 34]); 3 Maka *bùlló* ‘ashes’ [SvM]; 5 Zaar *bítár* (pl. in *-r-*) ‘ashes’ [CrZ] //Cf. Sem Arab *?abīd-* (Afr.) *par antiphrase* ‘charbon’ [BK I: 184].

176. *bVt- ‘beer’: W 1 Hs *béetsò* ‘native beer’; 6 Ngz *bála* ‘fermented guinea corn used for beer’.

C **bVt*- < **bVt?*- ‘to fermenter (beer), to decay’: 5 Pod *bité* ‘gâter’; 7 Mafa *bát-* ‘fermenter (bière)’, Mofu *-mbət-*, Chuv *mébətèy* ‘fermenter’ Ould *-bət* ‘cailler, se décomposer, moisir, pourrir’. //Sem Arab *bwd-at-* ‘bouza, espèce de boisson fermentée’ [BK I: 178].

177. *(ba)baž- ‘to clean the field before sowing’: C 6 Mbedam *baž* ‘défricher’ [NdP]; 7 Mofu *-baž-* ‘défricher, débroussailler’, Mafa *bəža* ‘écobuer, déchaumer’, Mbuko *bébaž* ‘netoyer le champ avant de semer’, Zlg *bəbəž* ‘préparer le champ avant de semer’; E 5a Bid *bol* ‘débroussailler’.

178. *bVž- ‘to break, ruin, forge’: W 1 cf. Hs *bážè* (*bazu*) ‘to demolish’; C 2 Mrg *bžđ* [HfM: 28] ‘to forge’, Bura *bža/i* ‘to do blacksmithing’, deriv. *bžiha* ‘to re-forgé a tool’, *bžimta* ‘to forge a tool’ [BIB]; 5 Pod *báža* ‘to push’; 7 Mafa *baž-* ‘briser’, Mofu *-báž* ‘(s’) écrouler, (se) détruire’, Ould *bážam* ‘bousculer’. Deriv. in *-t-*: W 3 Kupto *bál-téy* ‘to press ; C 7 Mada *ábžát* ‘être aplati’.

Deriv. in *m-*: C 7 Mofu *-mbəž-* ‘frapper du pied’, Ould *-mbəžəŋ* ‘fouetter’, Mol *mbaž* ‘to demolish’ [FsM], Mbuko *mbaž* ‘s’effondrer (maison, mur)’, Zlg *mbážá* ‘(s’) écrouler’.

Derived noun: C 6 Daba *mbəžà* ‘forgeron’ [Lnhr: 84].

//Cf. Sem Arab *nbš* ‘frapper qqn’ [BK II: 1381].

a. C **bVž-* ‘to hit, to ruin’: 1 Tera *bəži* ‘to forge’ [NmT]; 3 Bana *b(ə)ži* ‘taper avec un baton’; 7 Mofu *-bəž-* ‘se fendre (sol. mur; par le froid), se fissurer’; 9a Gdr *báž* ‘to collapse’ [FrG].

The next issue may cognate.

179. C *baž- ‘to kill’: 2 MrgC *bžənà* ‘to kill (many)’; 3 FK *bážə* ‘to kill in mass, destroy’; 7 Merey *bəbáž* ‘exterminer’, Muy *ábáž* ‘to kill’ (pl. object), *bážabážà* ‘violence’, cf. *bəžāc* idf. ‘wounding’, Mafa *baž-* ‘être décimé, mourir en grande nombre’; E 5a Cf. Bid *belbèl* ‘tuer des criquets avec des chiffons’.

180. *bVž- ‘to build’ > ‘granary, cabin’: C 7 Ould *-bəž* ‘construire, bâtir une case’; Mada *mbéžžé* ‘mur de séparation, compartiment’; 5 Pod *búžé* ‘small granary’; 7a Skn *mbəži* ‘granary in loft’; E 2 Lele *mbóló* ‘corn-bin’ [JgIb].

a. ***bV_k- ‘enclosure, cage’**: 6 Buwal *béžē* ‘animal enclosure’; 7 Mada *émbèž* ‘piège’, *ámbáž-wàr* ‘piège avec bûche’, Mafa *mbožor* ‘nasse à souris’.

Denom. verb in ***?a-/m-**: C 6 Buwal *bèž* ‘to fence’; 7 Chv *mébəžèy* ‘fermer’, Mbuko *mbāž* ‘piéger’.

Derived verb in *-t-* (complete action): W 3 Bol *bàl-tu* ‘to lock’ [GAB].

181. *(m)bV_k- ‘to turn (over)’: 6 Daba *mbàžðk* ‘retourner’; 7 Ould - *bàžày* ‘rouler à terre’, Muy *émbižiméy* ‘to seek smth turning things over’, Mafa *bəžam* ‘renverser un objet placé trop haut’; E 2 Tob *bólé* ‘renverser’ (Ch **k* regularly > ECh **l*).

//Sem Arab *b?s* ‘renverser, jeter qqn par terre ; se défendre, repousser’ [BK I: 80].

182. *bi/al- ‘to cut (down a tree), to chop’²⁹: W 5 Saya (Zaar) *bəl* ‘to split, make incision’ [Cs №825]; C 6 Buwal *bàl* ‘to cut down (tree)’, Mina *ból* ‘to cut’ [FrJ: 123]; 9 Mlw *bili* ‘couper, abattre’, Mnj *bili* ‘couper à la hache’, Msg *baláj*, *bala* ‘fällen, schlagen’ [LkM]; 9a Gdr *ból* ‘to cut with a machete’ [FrG]; 10 Gizey *bàlàw* ‘séparer, couper’ [LexC]; E 4 Barein **billo* ‘to chop’.

Derived noun: E 5a Mig *bòolâ* ‘hache’. Cf. W 1 Hs *bàlbee-tà* ‘a tattooing scalpel’

Derived noun: C ***bal-** ‘piece’: 3 Bana *b(ə)là* ‘morceau’; 8 Makari *bala* ‘piece, half’ [AlM].

Derived noun ***(m-)bVl- ‘scar, wound’**: W 3 Bol *bòlè* [GAB], Krkr *bàlè-d* [GK] ‘scar’; 5 Zaar *mbelle* ‘tribal scars’ [CrZ]; 6 W Bade *baalon* ‘scar’; C 6 Buwal *"bəlàx* ‘wound, sore’, Daba *mbəlāh*, Mbedam *mbəlah* ‘plaie’ [NdM]; 7 Mafa *balay* ‘plaie à la tête’, Baka *ambəlà-k* ‘plaie’ [BAS].

//Cf. Eg *wbnw* [if wbl] ‘Wunde am menschlichen Körper’ Med [EG I: 294].

a. ***bal-* < *HVbal-* > ‘to cut in pieces’**: W 4 Miya *bal* ‘to chop’ (also ‘to break rope’) [Sch]; C cf. 6 Mina *ból* ‘to cut’ [FrJ: 397], note *ból* id.; 7 Mbuko *bál* ‘cut in two’; E 5a EDng *bàlō* ‘couper (pour faire une lanière)’.

Cf. W 2 Goem *bál* ‘flute or whistle carved of wood’ [Hlw].

//Sem Arab *'bl* ‘couper, retrancher’ [BK II: 158-9].

²⁹ May be cognate with №183. ***bal(l)- ‘to break (off)’**.

The following root is probably cognate:

b. W ***VL**- (< ***Hbl**) ‘to etch, tattoo > to write, design’: Tng *balle*, Pero *bállò*, Dera *bùli* ‘to write’ [NmK], Bol *billu* ‘to trace, design, etch’ [GAB], Kupto *billéy* ‘to draw, write, make tattoo(s)’; C 1 Tera *bøla* ‘to write’ [NmT].

Derived noun: W 1 Hs *bálliyáa* ‘ornamental saddle-cloth’; 2 Goem *bóol* ‘scar, tattoo’ [Hlw].

//SCush Dah *bil-* ‘to decorate’ [EEN]. Cf. Sem Akk **biblu* (a type of tablet and text) SB pl. only [CAS b: 222].

Cf. [TN №267].

183. *bal(l)- ‘to break (off)’: W 3 Bol *bàllu* ‘break a piece off; remove bark from a tree’ [GAB], Tng *beli* ‘to break (stick), pinch’; C 2 Bura *bøli* ‘to break (such things as wood, etc.)’ [BIB]; 5a Hdi *balay* ‘to break, casser’; 6 Buwal *bølax* ‘to break off’.

Derived nouns: C 5a Hdi *bala-ku* ‘broken bone’; 9 Mnj *abaalay* ‘tesson’.

//Cf. Cush Afar *bal*, Saho id. ‘teilen’ [RA], cf. Sem Geez *bll* ‘spoil, ruin, destoy, mix’ [LsG: 96].

a. ***bal-** (< ***bhl** or Intensive stem) ‘to break (in pieces), to smash, to separate’: W 1 Hs *bállè* ‘to snap (bone, stick)’; 3 Kupto *bèléy* ‘to break, fracture; to prick’, Bol *bolu* intr. ‘break (of stick, etc.)’, plurac. *bòllu*, *bògilu* (< **b-k-l*, internal *-k-* pl.) ‘to break up, into pieces’ [GAB], Krf *bàyáléy* (internal *-k-* pl.) ‘to break (stick)’ [Stl], Pero *bèlò* ‘to break wood, crack’, Maka *bòláyò* ‘to break (stick)’; 4 Miya *bal* ‘to break rope’ (also ‘to chop’) [Sch]; 5 Dott *bóli* ‘to divide, separate’, Guus *bøl* ‘to separate’ [CrD, G]; 7 Fyer *baal* ‘to break (stick)’ [JgIb]; C 2 Klb *bølå* [MuK], Mrg *bøl* ‘to break’ [HfM: 23], Bura *bølå* ‘to break (stick)’ [BIB]; 3 FK *bøl* ‘to break’, Bana *b(ə)lí* ‘casser’, *bøli* ‘brisier beaucoup’; 5a Hitk *bal-* ‘abrechen, to beak off’, Lmn *bala* ‘to break, ruin’ [Wff], Hdi *bølay* ‘to break, smash; briser’; 7 Zlg *bál* ‘être cassé en deux’, Mada *ábal* ‘séparer, enlever’; 10 Dari *büł* ‘partager’, Dzpw *búł* ‘separer’; E 3 Smr *bwälä* ‘casser’ [JgSib].

Derived noun: W 3 Bol *bølò* ‘fracture, break’ [GAB].

Deriv. in *-t-/k-*: W 3 Bol *bøl-tu* ‘to break a stick or other object that snaps in two’ [GAB], Ngm *bøl-kô* ‘to break stick, break in-two’ [NEH]; C 10 Azum *bila-ka* ‘to destroy, ruin, spoil, defile’.

Cf. C 7 Muy *mbølat* ‘to divide’

184. *b[al]l-/*bVbVI- ‘to bend, curve, encircle’: W 1 Hs *balaaloo* ‘to wriggle (of a snake)’; 3 Kupto *bèlléy* ‘to bend smth.’, Dera *báli* ‘to encircle, go around’ [NmK]; C 2 Bura *mbala* ‘to turn, curve’, *mbali* ‘to bend’ [BIB]; 7 Ould *-bàlày* ‘se rouler’, Mada *óbbòl* ‘faire rouler (une pierre)’; E 1 Ngam *bibile*, Mobu *bábálé* ‘rouler à terre (cheval)’.

Derived verbs: W 3 Kupto *bàl-téy* ‘to bend’; C 7 Mafa *áblà-k* ‘faire tourner en rond’, *bàla-d-* ‘écartier, écarteler’; 8 Makari *mbil-ka* ‘to roll around’.

//Cf. Berb Ayr *ebel* ‘entourer de tous côtés, ourler’ [NZ: 55].

Cf. TN №260 (includes Dera and Mada forms).

185. *b[u]l- ‘to dig’: W 3 Ngm *bùlā* [NEH], Bol *bùlaa* ‘to dig out’, *bùllaa* (plurac.) ‘to scoop out (tuwo, earth)’ [GAB]; C 9 Msg *bol(a)* ‘hacken, graben’ [LkM]; E 5 Bid *balbàl* ‘creuser les fourmilières pendant la famine’. Cf. E 5a EDNg *bòl-tō* ‘gratter la terre’.

Derived noun: ***bVI- ‘well’:** C 8 Affade *blə*, Ngala *pəlii* [Sol], Makari *bile* Kus fley, Log *fili30 [Al]; E 3 Ndam *bāl* [Jg], Tum *bal* ‘well’, Smr *béllali* ‘kurzer Brunnen’ [Luk]. Cf. W 3 Maka *búlá-gàžì* ‘well’ [SvP].*

Deriv. in *m-* ‘to bury’: W 3 Kupto *mbàaléy* ‘to bury, cover with sand’, Krkr *mbilmu*, *mbùlmu* [GK], Bol *mbàlu* ‘to bury’ [GAB], Glm *mbil-àalá* ‘to dig out’ [SchB].

Derived noun: W 3 Bol *mbàlù*, Ngm *mbèelù* ‘burial’ [NEH]; C 6 Buwal *bal* ‘funeral’.

//Sem Sab *blw* ‘construct a tomb’, *blyt* ‘tomb’ [SD: 29], *bly* ‘élever une sépulture’, *blwt* ‘tombe’ [DRS: 66], Aram Hatra *bly* ‘designation of a (certain type of) tomb’ [HJ: 166].

a. The following forms: W 5 Zaar *bəl* ‘to dig’ [CrZ]; E 3 Tum *bəl* ‘creuser; évaser’, *bəl* ‘pit’ < Ch ***bHI** may be cognate with Sem Sab *b'l* ‘work, excavate bedrock’ [SD: 26] < Sem **b'l* ‘to make, work’: Ug, Hbr, Phn *b'l* ‘to make, prepare’, Pun *b'l* ‘to make, to construct’ [DUL: 202f]. For the latter cf. C 7 Mol *balay* ‘to build’ [FsM].

Note also: ***bVHVI- > bVI- ‘slave’:** C 7 Mafa *bele*, Chuv *bèlèy*, Mbuko *bilē* ‘slave’; 9 Msg *beel* ‘Sklave’, *bulii* ‘Sklavin’ [LkM]; E 6 Mok *búlè* ‘esclave’, *bíulè* ‘traiter comme un esclave, brimer’. Cf. 6 Daba *bàlám* ‘slave’.

³⁰ Devoicing and velarization in contact with *-l-* (*bl-* > *fl-*) is possible. Note, however, SEOmot: Zayse *p/fulto*, Harro cluster *pult-* ‘well’ [BnO: 337].

//Sem Ug /b-^č-l/ ‘to make, work’, *b’l* ‘(unskilled) labourer; craftsman, maker’ [DUL: 202f].

186. *bVl- ‘to flow (out), pour (out)’: W 1 Hs *búlbùulaa* ‘to pour out’; C 8 Zina *bèlè* ‘to flow’; 10 Azum *buluk* idf. of ‘splashing out (water)’; E 5a Mig *bóoló* ‘vider une bouteille d’un trait’, EDng *bòllé* ‘déborder (en bouillant)’, Bid *bòlol* ‘déborder (liquid)’. Cf. 7 Baka *bàhalay* ‘verser’ [BAS].

Deriv. a. ***bVl(l)- ‘river’:** W 5 Bgh *bul*, *pwil* [Cs], Zul *bullai* ‘river’ [Cs ‘stream’; 5a WDng *bààlà* ‘rigil, rivière’, EDng *bàla* ‘le ruisseau’, 5b Mubi *bèeli* ‘fleuve’; E 3 Smr *bal* ‘river’ [Bn]. Cf. C 10 Azum *àbila* ‘a wave (on water)’.

b. ***bVl- ‘rain’:** C 4 Bata (dial) *bole* [Bn]; E 3 Smr *beláani* [Luk] ‘rain’, cf. Ndam *bèlan* ‘ciel, dieu’, Tum *bòlàn* ‘God’.

//ECush Som *bilbiayl* ‘to spray’ [LIS], Oromo *bulula* ‘to flow’ [Grg], Cush Beja *bile* ‘Regen’ [RBd], Sem Hbr *ybl* ‘pour down rain’, *yābāl-* ‘heavy shower’ [KB: 359], *’ābēl* (<**yōbēl*) ‘Wasserlauf, Bach; water-course, brook’ [KB: 6], Aram Samal (Syr) *ybl-* (meaning uncert.) ‘river, brook’ [HJ: 433], Arab *wbl* ‘verser une pluie abondante (se dit du ciel)’, *wabl-* ‘pluie abondante’ [BK II: 1478]. Note also Sab *bll* ‘wet, moist’ [Bl: 44], Geez *bll* ‘moisten, wet’, Ug, Hbr *bll* [LsG: 96]. Eg *wbn* [if= *wbl*] Nä ‘Quelle (in der Oase)’ [EG I: 294]. Cf. E 5a Mig *báláanyí* ‘humidité’ < Arab *ballān-at-* ‘baigneuse’ [BK I: 156].

[AA 2 №131, Dolg: 54, Coh: 465, HSED №312].

For Ch **bal-/bulay* ‘pond’ see [BIL №3] and [TN №264].

187. *bVl-(bVl)- ‘to burn’: W 1 Hs *bàlàabalàa* ‘scorching undecorticated monkey-nuts’; E 5a Mig *bálbilò* ‘brûler’; 5b Tor *biliw* ‘rôtir, griller’.

Cf. W 1 Hs *bàlbàl* adj. ‘(to burn) with bright flames’; 3 Kupto *bùlbùl* idf. ‘describing high flame(s)’; 6 WBade *bàlbàla* idf. ‘indicates flames’. Cf. E 6 Mok *’ubil-só*, pl. *’ùbàlì* ‘braise’.

Derived nouns: a. ***m-b[u]l-** ‘ashes’: W 3 Kupto *bùl-tó* ‘ashes’; E 4 Saba *tə-mbəl* ‘ash’; 5a Mig *bó-mból-ká* ‘cendre (d’herbe), suie’.

//Cush Sid *buluulo*, Gede’o *bululo* ‘ashes’ [Hds].

b. E ***baal-** ‘place for burning pots’: 5a WDng *báálè* ‘creux circulaire rempli de paille pour faire cuir le poteries’; 6 Mok *bàalá* ‘foyer sur lequel on cuit, endroit où les poteries sont cuites’.

//Sem Akk *nablu* OB, MB ‘flame’ [CAD n₁: 25], Geez *balbala*, *?anbalbala* ‘to blaze, kindle into blaze, flash’, *nabalbāl* ‘flame’, Eth ‘to blaze, flame’ (Tna *bälbälä*, etc.), Amh *bil-bill alä* ‘to burn quickly’. Common with Cush: Oromo *belbel* ‘flame’ Som, Beja, *balōl*, Saho *bolol* ‘burn’ [LsG: 95]. Cf. Sem **nabal-* [Kg: 195]. Also: Cush Beja *balōl* ‘Brand, Flamme’, *balool* ‘burn’ [RBd], Saho *bola* ‘flame’ [Vr], Afar *boli* ‘to burn, to boil’ [RA]Berb Wrgl *bbelbel* ‘monter haut (flame)’, Ghad *belbel* ‘brûler’, NIG *ebabbal* ‘grand feu’ [NZ: 52], Ayr *e-bewil* ‘baking in ashes’ [NZ: 81].

For Cush Afar *boli* ‘to burn, to boil’ cf. C 7 Baka *búláy* ‘bouillir’ [BAS], Mol *vəlay* and *vərdøy* ‘to boil’ [FsM].

For the next entry cf. Sem Geez *?anbalbala* ‘to blaze, kindle into blaze, flash’.

Deriv. in *?a-*: **?a-b[ijl]- > bVl-* ‘**to make fire**’: W 2 Ngas *bel* ‘to light a fire’ [Fl], *bél* ‘to set fire, start a fire’ [JgN], Goem *bál* ‘to blow a fire’, Mghv *bél-wus* ‘to light fire’ [BLM], Mpn *bil-wus* ‘to make fire’; C 4 Gude *bələ* ‘to blow out flame’; C 5 Pod *bəla* ‘allumer (le feu), to light’; 7 Gis (*bəl, bl*) ‘anblasen (Feuer)’; E 5a Bid *?ebel* ‘se rallumer, se raviver (charbon)’. Cf. W 3 Krkr *bàliuu* ‘firing a pot’ [GK].

Derived noun: **?a/m-bVl-* ‘**embers, flame**’: W 2 Mghw *mbələm* ‘Funke’ [JgS], Mush *bələm* ‘flame’ (apud [TAS: 13]); E 5b Brø *?ùbáalì* ‘braise’, 5a Bid *?ùbáalà* ‘braise’, EDNg *?ùbilā* ‘la braise rouge’.

[AA 2 №132: Ch Ngas, Mghv, Bid, Gis; Coh: 403, ISv: 17].

188. *bVl(l)- to tie’: W 3 Kupto *bèlléy* ‘to tie’, *bàl-téy* ‘to tie a knot’.
a. C **b[all]-* ‘**rope, net**’: 2 Bura *bala* ‘rope’, *bula* ‘rope shrub’, *balabala* ‘braided, twisted’ [BLB]; 5 Mlg *bél* ‘Gürtel, Gurt’; 8 Lgw *bale* ‘fishing net’ [ALL]; 10 Azum *abalalu-na* ‘cobwebs’.

b. **bVl-* ‘**vein**’: W 2 Goem *vèel* (< -beel, may derive from a form with a body-parts’ pref.) ‘vein, artery’ [Hlw]; C 7a Skn *bəli-ži* ‘vein’, *bule-žiy* ‘tendon’; 8 Log *bille* ‘Adern, veins’ [LkL].

c. **m-bVl-* ‘**tendon, bowstring, root**’: C 8 Afd *mbill* ‘Bogenschnur’, Bud *balei*, *palei* ‘Nerv, Sehne’ [Sol: 290], Log *mbélee* ‘Wurzel, root’ [LkL], *m̥bil* ‘tendon, root’ [ALL], Kus *m̥bil* ‘tendon, racine’, Makari *m̥bil* ‘root, muscle’ > *m̥bil-kan* ‘knot, noeud’ [Al]; E 4 Mawa *biluwa* ‘tendon’.

//Sem Akk *eblu* (OB) ‘rope’ [CAD e: 15], Ug, OArām *ḥbl* ‘cord, rope’ [DUL: 347] Arab *ḥbla* ‘prendre (une bête) au filet, serrer avec une

corde’, *habl-* ‘corde; veine ou artère ou tendon’ [BK: 370], Geez *habala* ‘to bind, fetter’, *habl* ‘string, rope, snare’, *hablay* ‘plaited work, ornamental collar for mules’, Soq *habehol* ‘rope’, Tgr *habl*, Tna *habli*, Amh *habl* ‘rope’ [LsG: 223].

d. CCh 7 Gis *'abalay* ‘Fussspange’//Cush Afar *bilaa* ‘Bracelet, Arm-, Fussspange’ [RA].

For Arab *ḥābil-* ‘qui tend les filets; sorcier, magicien’ (ḥbl) [BK I: 370] see W 5 Bgh *ḥál* ‘to tell fortune’.

Consider the next issue as a possible root-variant.

189. *HVbal- > *bal-: 1. ‘to plait, knot’; 2. ‘to attach’: 1. W 1 Hs *bállà* ‘to knot, secure by pulling, pullstrap’; C 5 Pod *bala* ‘tresser’; 2. W 2 Goem *bál* ‘lock or fasten smth’ [Hlw], Mghv *bál* ‘to unite, fix, join’ [JgM], Mpn *baal* ‘to join’; C 5 Pod *bala* ‘to catch with glue’; 7 Mada *ábal* ‘fixer, coller’.

For the semantic link between ‘to knot’ and ‘to attach’ see Arabic.

Derived noun: ***bVly-/bVyl-** ‘trap’: W 4 Wrj *byala-na* ‘trap for small birds’ [BlS]; C 7 Mafa *balay* ‘piège sp.’, Mbuko *bálāy* ‘piège’.

//Sem Arab *'bl* ‘tordre, tresser; lier, attacher, serrer’, *'ablal-* ‘corde grosse et bien tressée’ [BK II: 158].

190. *bVl- ‘(to) dance’: W 1 Hs *báluulà* ‘kind of dance’; C 9 Mlw *búlí* ‘danser (hommes)’; 10 Masa *ból* ‘danser’ [CC].

Derived noun: W 2 Mghv *bél* ‘dance (for energetic people)’ [BlM]; E 5a Bid *báalà* ‘danse d’accueil’.

/ECush Som *bullo* ‘type of Somali dance’ [LIS], Eg *yb'* (if = [ybI]) ‘tanzen’, *yb'* AR ‘Tänzer’ [EG I: 62].

191.*(m-)bVl- ‘to harvest, gather, pluck’: C 6 Mbedam *mbal* [NdP], Daba *mbál* ‘cueillir’, Buwal *"bál* ‘to pick fruit; stop, hold, grab’, Mina *mbál-* ‘pick’ [FrJ]; 7 Ould *mbálàt* idf. ‘arracher’; E 4 Barein **biló* ‘to harvest (peanuts)’; 5a Mig *búláw* ‘ramasser un à un’, EDng *bálbilē* ‘glâner, ramasser les grains de mil’. Cf. 6 Mok *búulè* ‘gleaner’.

192. *(m)bVl- (or *bVHvl- > bVbVl- (compensatory redupl.) > mbVl- /bVl- ‘to say, to cry’ > ‘a cry, chat’: W 2 cf. Grk *ko-bel* ‘to call’ [Fp]; 3 Bol *bálaa* ‘to cry’ [GAB], Ngm *bálá* ‘to cry’ [NEH], 4 Miya *babəla* ‘to say (several times)’ [Sch], *bəla* ‘to say’, Tsagu *mbul* ‘to say, to

speak' [SkNB]; C 5 Pod *mbala* 'répandre, annoncer'; 7 Baka *bùbùlu* 'crier' [BAS]; 8 Kus *bil* 'to say', Log *vile* 'to call someone' [AIK].

Derived noun ***bVl-** 'a cry, chat': W 3 Bol *bèle* 'crying' [GAB]; C 7 Mbuko *bàlà* 'causerie', Mada *bòblò* 'crise de deuil, crise d'alerte'; 10 Mus *bolla* 'langue, discours, sermon' [ShyM]; E 2 Lele *bilà*, *bùlà* 'bruit, cri', *bòl* 'paroles abondantes'. Cf. C 8 Afd *mbóli* 'Sänger, singer' [Sol: 130].

a. ***bVHvl- > bHvl-> bVl-** 'to say, tell': W 3 Dera *bálè* 'to say' [NmK], cf. Krkr *boolo* 'crying for help' [GK]; C 1 Tera (dial.) *bəla* 'to speak' [Kr]; 5 Pod *bəla* 'raconter'.

//Sem Geez *bəhla*, *bəhla* 'to say, speak, call', Mhr *behl-īt* 'word, thing', Eth Tna *bälä*, Tigre *bela*, Gaf *balä*, etc. 'to say' [LsG: 89]. Accord. to Leslau the following forms are cognate: Akk *ba'ālu*, *bālu* (SB) 'to beseech, pray', Arab (*bhl*) *?ibtahala* 'to implore, beseech'.

For possible cognates of Arab *bhl* 'maudire, atteindre de sa malédiction (se dit de Dieu)' [BK I: 173] see Chadic: W 3 Dera *bèelé* 'to insult' [NmK]; E 1 Kera *bálgé* 'abîmer, offender'.

[AA 2 №110 **bahl-* '(ritual or emphatic) speech; to speak' (includes Ch W 1 Hs *bálli* 'quarrelling, abusive language' and W], for Log, Lele forms see [TN №254].

193. *bV(wV)l- 'to grow': W 2 Mpn *boál* (*bwal*) 'to grow abnormally'; C 2 Bura *bula* 'to develop or grow rapidly' [BlB].

a. ***(bV-)bVl-** 'big, wide': W 3 Gmy *puul* 'large sized' (apud [TAS: 291]; 4 Paa *bábələ* 'very big' [MS], *bəlam*, Diri *bula* 'long, tall, big' [SkNB]; 6 Mbedam *bəla-x^w* 'gross' [NdP]; 8 Lgw *bala* '(to be) wide' [AIL]; 9 Msg *bóbolo* 'gross' [LkM]; 10 Azum *bulà* 'wide'; E 1 Kera *bòbló* 'big'; 3 Cf. E 5a EDng *bòló-kí* 'long, profond, grand'.

//Sem Akk *ba'ālu* 'to be abnormally large' [CAD b: 1].

For C 10 Azum *bulà* 'wide', *buloda* 'distance, the space between two things' see PEChush ***bald-** 'broad': Burji, Bayso *bal'*-, Som *ballaq*-, Oromo *bal'*-, *ball-*, *bald'*- [SsB], Rend *balad-an* [Sam].

Denom. in *?a-*: ***?abVl- > *bVl-** 'to enlarge, to widen': E 3 Tum *bəl* 'élargir', Ndam *bəla* 'évaser, agrandir, élargir (un trou)', *bəl* 'grand'.

The next rot may be cognate, note that terms for 'many' and 'big' are confused in W 7 Bok *bål* 'viel, gross werden'.

194. *(m-)bVl- 'many, much': W 2 Ngas *bál* 'be sufficient, plenty' [JgN], *bull* 'much' [Or], Mnt *bul-bul* 'many' [Fp], Goem *mbel* 'many,

in great number' (apud [TAS: 31]), Goem *mbèl* 'much, many' [Hlw]; 3 Tng *bilim* 'crowd grouping, multitude'; C 5 Pod *mbéla* 'to be too much'; 10 Musey *bòlòw*, Lew, Marba *'ablàw* 'nombreux' [LexC], Mus *bolow* 'beaucoup, nombreux' [ShyM]; E 1 Kera *àblàw* 'viel, zehr'. Derived verb: C 8 Kus *bal-ka* 'to increase, add' [AlK].

Denom. verb in *?a-*: **abVl*- 'to multiply, increase': W 2 Mghv *búl* 'to increase' [BLM]; 5 Zul *búli* 'to increase' [Cs №900]; 7 Bok *bâl* 'viel, gross werden' [JgR]; C 5 Pod *bèla* 'multiplier'.

Deriv. W 3 Krf *búlli* 'many, much' [SchB]; 7 DB *bâl* 'zu viel sein, im überfluss vorhanden' [JgR].

//Sem Arab *bawl-* 'grand nombre', *bawāl-at-* 'grand nombre, grande quantité' [BK I: 180], Sab *bll* 'abundance' [SD: 28], Cush Arb *buli* 'all' [ATO], Om Kafa *bulloo* 'Gesamtheit, jeder, alle', *balloo* 'hundert' [RK].

For Ch 'many, much' and Akk 'to be abnormally large' see [TN №141].

195. C **bVl*- 'to swell': 3 FK *búl* 'to swell up, inflate'; 10 Gizey, Masa, Musey, Ham *bâl*, Lew *bòl* 'enfler' [LexC], Masa *bâl* [CC], Musey *balla* [ShyM] 'gonfler, enfler'.

Derived nouns: C 3 FK *mbálá-kànà* 'swelling or groin following injury to leg'; 7a Skn *mbèla-kèn* 'mumps, swelling'.

Cf. W 2 Mpn *bâøl* 'to swell up, be filled up (e.g. with food)'

a. **bVl*- 'to be full': W 3 Tng *bel* 'full'; E 5a EDng *bâlče* 'se remplir à nouveau (puits)'.

196. **b[al]l*- < *HV*bVl*-> 'to shoot (an arrow), sting': W 1 Hs *bállà* 'to inflict, sting, kick'; 7 Bok, DB, Sha *bôl* 'schiessen (Tiere)' [JgR]; C 6 Buwal *bâl* 'to shoot'; C 6 Gavar *bal* 'tirer', Daba *bâl* 'lancer la flèche, piquer', Mina *bâl-* 'to shoot' [FrJ]; 7 Muy *ábâl* 'to shoot, sting', Mbuko *mbalay* 'tirer la flèche', Chuv *mébélëy* 'viser (avec une arme)', Mada *ábâl* 'tirer (a l'arc), flécher, piquer (insects)', Baka *bar* 'tirer' [BAS]; 9 Mnj *bili* 'lancer'; E 2 Lele *bilé* 'tirer'.

Derived noun: W 3 Krkr *bèlu* 'arrow' [Kr]; E 5a Bid *bállà* 'flèche', *bâalò* 'arc', 5b Tor *bele* 'arrow'.

//Sem Arab *nbl* 'jeter, lancer (traits, dards)', *nabl-* 'flèche' [BK II:1187]. Cf. also Arab *'bl* 'garnir une flèche d'une fer long et large', *mib'al-at-* 'fer de flèche long et large, flèche au fer long et large' [BK II: 158f].

197. *bal- > *HVbVl- > ‘to send, chase away’: W 3 Kupto *bàlléy* ‘to chase away birds’; C 5 Gdf, Gava *bl:a*, Chn *bəla* ‘to send’ [HmG], Wnd *bálá* ‘to send’ [FW], Mlg *bála* ‘senden’; 7 Mbuko *bāl* ‘chasser’, Gis *bol* ‘verfolgen, verjagen’.

//Sem Arab *'bl* ‘repousser, éloigner’ [BK II:158].

Note two root-variants:

a. ***(m)bVl-** (possibly, compensatory prefixation <***HVbVl-**) ‘**to drive, chase, push**’: C 2 Klb *mbəllá* ‘to push’ [MuK], 5 Pod *mbála* ‘depart, send, throw’; 7 Mafa *mbál* ‘éloigner, chasser’.

b. W 5 Dott *bəl* ‘to drive away’ [CrD]; C 3 Bana *vəlì* (*w-b-l / n-b-l*) ‘envoyer; send’.

Deriv. in *-d-*: C 7 Muy *ábələ-d'* ‘to push’.

//Cf. Sem Sab *nbl* ‘to despatch, send so. on a mission’ [SD: 90], Arab *wbl* ‘poursuivre avec ardeur, donner une chasse vigoureuse à sa proire’ [BK II: 1478].

198. *bVl- < *HVbVl- ‘to throw, fall’: W 1 Hs *billà* ‘to throw’; 3 Krkr *bàlu* ‘to drop, release, divorce, lay eggs’, *bàlaa* ‘to throw, put on an upper garment’ [GK], Kupto *biuléy* ‘to throw, to fling’, *bùkley* (internal -k- pl.) ‘to throw’; 7 Kul *bil* ‘werfen’, DB *bil* ‘über Etw fallen, stolpern, anstossen’ [JgR]; C 5 Glv *bəl* ‘to throw’, *bil* ‘to fall’, 5a Gdf *bl:a*, Gava *bəla* ‘to fall’ [GvH], Wnd *bela* *laya* ‘to lay eggs’ (*laya* ‘egg’) [Voc].

//Sem Soq *'bll* ‘faire descendre’, Arab *'bl* ‘tomber (feuillage)’ [LsS: 293].

199. *bal- ‘field’: W 3 Kupto *bàlbàl* ‘field(s), space, area, ground’; C 3 FK *bábàl* ‘field’; 8 cf. Ngala *baala* ‘plain, flat country’ [Bn]; E 4 Mawa *bəla* ‘champ’. Cf. C 5 Hdi *vəli* ‘place’.

//PECush **bal-* ‘field, plain’ [SsB: 32], Oromo *boollee* ‘soil’ [Grg], Sem Arab *ba'l-at-* ‘champ’ [BK I:144], Yem dial. *ba'l-* ‘land sown in winter’, Sab *b'l* ‘rain-irrigated land’ [SD: 26].

Denom. verb in *'a-* (Caus): ***'abal- > bal- ‘to clear a field’:** W 3 Ngm *bàalâ*, *bàalo* (dial.) ‘to clear bush for a farm’ [NEH], Bol *bòlà* ‘clearing area for a farm’ [GAB], Kupto *bélí* ‘clearing the bush for farming’.

Derived noun: C 5 Malgwa *bala* ‘Gemeinschaftarbeit auf dem Field’, Lmn *bàlà* ‘customary collective help or community labour’.

//Cf. Om Yemsa *bul-* ‘(Land) bebauen’ [LmY].

The following forms may be cognate with the main root:

- a. C ***bal-m-** ‘place’: 9 Mnj *balam* ‘emplacement, endroit’; 10 Musey *balamma* ‘place’ [ShyM], Dzpw *mbèlèm* ‘espace dévasté’.
- b. ***bal-k-** ‘threshing place’: 5a Hdi *bèlikwì* ‘round walled area where grains are threshed’, Lmn *bèlkò* ‘threshing place or ground’ [Wff]; 7 Vame *valak* ‘cour intérieure’.

The following forms are labelled as loans from Kanuri *bàlbàl* ‘Ruheplatz (vor der Hütte)’, namely: C 2 KlB, Mrg *bàlbál* ‘open space’ [MuK, HfM: 18]; 8 Bud *bélbelee* ‘Hof’ [LkBd], Kus *balbal* ‘courtyard’, Makari *balbal* ‘cour’ [AlK, AlM]. Note however the lack of a Nilo-Saharan etymology. Cush Burji *balbala* ‘place covered by a canopy’ [SsB] may be also involved.

The next root is possibly cognate:

C ***bal-** (<***bHal-**) ‘open, uncultivated land’: 5 Lmn *bálá* ‘open space between two settlements’, Pod *bala* ‘terrain plat’; 7 Ould *bálá* ‘terrain déserté, sans herbes’, Mada *bálá* ‘lieu inculte, stérile, désert’; 8 Makari *mbala* ‘terrain’. Deriv.: 7 Muy *bòlòl* ‘abandoned’.

//Sem Aram *bālā*, *bā'lā*, Mand *bala* ‘prairie, terre inculte; animaux féroces?’ [DRS: 51]. Cf. the next issue.

200. *ball-/*bVlw- ‘jackal, (barking) fox’: C 6 Daba *bèlwāy* ‘renard’; 7 Baka *bóló* ‘dog’ [YB]; 9a Gdr *bàlwá* ‘fox’ [FrG]; 10 Gizey *bàlèy*, Masa *bà'olìy*, Musey *bòliì* ‘chacal’ [LexC], Musey *boli-na* ‘chien sauvage’ [ShyM], Azum *boli-na* ‘like a fox; has a white tail’; E 5 Bid *bàlàaliyo* ‘fennec’, WDng *bòllò* ‘espèce de chat sauvage au pelage fauve, il creuse des galeries en terre, aboie comme chien’, EDng *bólóló* ‘le chacal’; 7 Jegu *bóló* ‘Fuchs’.

//Sem Geez *'abbəl* ‘jackal’ [LsG: 3]. For Geez and ECh ‘hyena’ see [TN №271].

201. *b[al]- ‘a species of crested bird’: W 1 Hs *balbelàa* ‘buff-backed heron or cattle egret’; 3 Bol *bàalà* ‘Abdim's stork’ [GAB]; 4 Miya *mbèlam* ‘crowned crane’ [Sch]; 5 Guus *bélbéla* ‘white egret’ [CrG]; E 2 Lele *báàlē* ‘heron’; 5a Mubi *búulè* ‘héron sp.’ [JgM]. Cf. W 3 Kupto *'àbiùulà* ‘bird sp. (marabou stork)’.

//Sem Akk *bulīlu* lex* ‘a species of crested bird’³¹ SB [CAD b: 310, AHw: 137], Berb EWlm, Ayr *ebélbél* ‘héron’ (a Ch loan?) [NZ: 53].

³¹ Accord. to [SED I №60], Akk is cognate with EthSem **bull-* ‘dove’, see below.

For Hs, Lele, Mubi, Eg *bn.w* ‘Phönix‘ and Berber see [EDE II: 211, TN №282].

202. *bal- ‘hangar, shelter’: W 4 Miya *bali* ‘entrance hut’ [SkNB]; 5 Dott *bäláy* ‘hut’ [CrD]; C 6 Daba *màbàlà* ‘hangar’; 7 Mofu *bëla-k* ‘hangar’, Mada *bala-k* ‘séchoir, abri’, Mol *abala-k* ‘hangar to give shade in front of a house’ [FsM], Gis *'abalak* ‘Schattendach’; 9 Mnj *bala-k* ‘hangar’, Msg *bála-k* ‘Schattendach’ [LkM]; 10 Dzpw *bàlà* ‘abri’, Azum *bala* ‘a rough-shelter’.

203. *ba/ul- (bwl) ‘goat’: C 1 Boka *bwàlə* [Kr]; 8 Afd *búl-goéh* ‘Ziege, she-goat’ [Sol:122]; 10 Azum *balâ* ‘a castrated goat’; E 2 Kaba *bal*, Lele *bùlóbùló* ‘bouc’; 4 Sok *bàl*; 5a Mig *bòolýò* ‘he goat’ [JgIb]; 6 Mok *báàlè* ‘grand (bouc)’.

/Cf. Eg *b* AR ‘heiliger Bock’ = ‘ram’, for alternative cognates see [EDE II: 23-25].

204. *b[u]ll- ‘hole’: W 2 cf. Mpn *bàlló-k* (or *bàl-lók*) ‘hole’; C 7 Mada *blè-k* ‘trou, nid’, Mafa *mbolo-v* (<*mbolo-b*) ‘rectum humain’; 8 Lgw *búlu*, Makari *bolo* ‘hole’, cf. Kus *bil-gʷi* ‘anus’ [Al]; E 5a Mig *bìulè* ‘entrée (d'un concession), trou (dans un mur)’, Bid *búllo* ‘fond, trou’, *búlào* ‘anus’, 5b Jegu *bolo-k etento* ‘Nasenloch’ (‘hole’ +‘nose’) [JgJ]; 6 Mok *bùl-dó* ‘trou, valley’. [HSED №332].

Cf. W 7 Bok *"bwal-ši* ‘Anus, Vagina’ (cf. *šiši* ‘excrement’) [JgR], DB, Sha, Mundat *mbòkòl*, Monguna *mbùkòl* ‘vagina’ (internal *-k-??*) [RC]. Denom. verb in *m*-: W 3 Kupto *mbòoléy* ‘to pierce, make a hole’; C 7 Mbuko *mbalay* ‘manger un trou (insecte)’.

Denom. verb in *'a-*: ***'abVI- > 6VI-** ‘to make a hole, to hollow’: W 1 Hs *bíulà* ‘to make a hole, knock a hole in thing’; 2 Ngas *bèl* ‘to hollow out, bore a hole’ [JgN], cf. Mghv *bél* ‘einen Hirsenhahn aushölen’ [JgS].

Derived nouns: W 3 Krkr *bululu* idf. ‘very small opening or hole’ [GK]; 5 Bogh *pyu-bol*, Mng *mbil* ‘door’ [Cs], Zaar *bì:l* [CrZ] ‘doorway’ [AA 2 №135: Cush+Ch ‘to make a hole’].

205. *bul- ‘type of man's gown’: W 3 Bol *bullàm* ‘type of men’s gown’ [GAB], Tng *bulum* ‘traditional man's skirt’; C 2 Bura *bul* ‘large gown worn by men’ [BlB].

a. *(*?a*)***bVl***- ‘**loin-cloth for women**’: C 7 Muy *abɔ́lò* ‘woman's cache-sexe (made of bark)’, Ould *abāló* ‘cache-sexe des femmes Madas’; 8 Kus *bol* ‘cloth worn by woman’ [AIK]; 9 Msg *ablúk* ‘Schambinder (der Frau)’ [LkM]; 9 E 5a WDng *bállà* ‘cache-sexe’; 6 Mok *búlè* ‘cache-sexe f., tissu de cotton blanc’. Cf. W 3 Tng *belle* ‘sp. type of leaves (used as cache-sexe)’.

//Cf. Sem Akk *bultu* (a blanket?) EA, NUzi, *bulū* (NB) (a curtain of linen, used in sanctuaries) [CAD 311, 313].

206. **bVl*- ‘light’: W 2 Ngas *bel* (or *bäl*) ‘clear, daylight’ [Fl]; 4 Kariya *bila-du* ‘lightning’ [SkNB].

Denom verb in *?a-*: *?abVl*- > ****bVl***- ‘to become bright, to shine’: W 2 Ngas *bel* ‘to clear up’ [JgN]; 3 Bol *béelu* ‘to become bright’ [GAB]; C 3 FK *bàl* ‘to shine’; E 1 Mobu *bálányé* ‘briller’; 5 Mig *béeló* ‘briller’. Derived noun: W 4 Jmb *balala* ‘whiteness’ [SkNB].

//Sem Akk *báalu* [OB, SB] ‘to become bright, to shine brightly (referring to the planets, sun, moon and other stars)’ [CAD b: 1].

Denom. verb in *m-* ‘to shine’: C 2 Mrg *mbäl* [HfM: 34], KlB *mbäl* ‘to shine’ [MuK]; 7 Muy *mbül* ‘shining, pretty’; 6 Daba *mbäl* ‘allumer’. [AA 2 №133: Ch Ngas, Cush **b-l* ‘day (24 hours)’].

207. **bVl*- ‘man’: W 3 Bol *balaawò* ‘respected old man’ [GAB]; 4 Wrj *mbulai* ‘common man’ [BIS]; C 8 Log *bla*, pl. *mi* ‘homme’ [Mo: 49], *bàlò*, pl. *mùygù* ‘man’ [Jglb], *bàla* ‘Mensch’ [LkL], Afd *beelo* ‘people’ [Bn], *beló*, Gulfei *bel-ewe* ‘Mann’ [Sol: 232], Makari *blo* ‘man’, *blo-se* ‘man (male)’, Kus *bluwe* ‘man (male)’ [AI].

Cf. 10 Azum *ablou-dà* ‘many people, crowd’, C 7 Balda *bùlù-múŋ* ‘être humain’ [Bry].

Deriv. in *-k-* ‘guest’: C 6 Buwal *"bəlokʷ* ‘guest, visitor’; 7 Zlg *mbálákʷ* ‘visiteur’, Mbuko *mbálók* ‘étrangler, hôte’.

Cf. also: ‘alien’: C 10 Musey *babali-na* ‘enemy’ [ShyM]; C 5 Hdi *mbəlaam* ‘anyone who is not part of a blacksmith family’; 7a Skn *mbilim* ‘non-smith, member of the farmer caste’.

//Sem **bál*- ‘seigneur, maître, mari’: Akk *bēlu*, Ug *b̥l*, Hbr *bḁal*, Arab *bḁl*-, Geez *bḁäl*, Amh *bal*, Tgr *bḁl*, Soq *bḁal*, etc. [DRS: 74, LsG: 84, Kg: 237]. Cf. Cush Afar *báll-aa*, fem. -á, Saho *báll-o*, fem. -ó ‘father-in-law’ [RA].

[HSED №182].

208. *bVl(l)- ‘spear’: W 1 Hs *bellam* ‘spear, harpoon’; 3 Tng *bal* ‘spear with a large blade’, Kupto *bélli* ‘spear sp (for fishing)’, *bèllèm* ‘spear sp. (for horse riding)’; C 5 Lmn *bálá* ‘spear with leaf-shaped blade’.

Denom. verb in *?a-* : **?a-bVl-* > **bVl-* ‘to pierce (with a lance, sharp point, through)’: W 3 Krf *bòyòléy* ‘to pierce’ (pl. in -*k*-) [Stl], Bol *bil-tu* (complete action) ‘to pierce or lance a boil, blister’ [GAB]; 4 Jmb *bul-* ‘to pierce’ [SkNB]; C 9 Mnj *bili* ‘enfoncer (une pointe), percer’, Mulwi *bili* ‘percer’ 10 Azum *balá* ‘to transfix (across)’; E 1 Kera *bélé* ‘nageln, clouer’.

a. W 3 **bVl-* ‘sharp edge’: Bol *bél* ‘cuspid, canine tooth’, *bèelu* [GAB], Ngm *bàalà* ‘spur on rooster’s foot’ [NEH].

Denom. verb in *?a-* : W 3 Dera *bèelé* ‘to sharpen edge of tool by beating’; 5 Zaar *bal* ‘to sharpen by beating the edge; sharp’ [CrZ].

Denom. verb in *m-*: C 5 Pod *mbala* ‘to sharpen’.

//Sem Akk *bēla* ‘etw. Waffe’ (not in CAD), cf. Geez *balha*, *balha* ‘be sharp’, Tna *bälhe*, Tgr *bälha*, Amh *bälla* ‘be sharp’, Amh *bäliho* ‘knife’ > Bil *balah* ‘spear’ [LsG: 95].

The next root may be cognate with Ch ‘spear’, or with Cush ‘knife’.

209. *bil- ‘throwing knife’: C 10 Masa *bīl* [CC], Musey *bil-na* [ShyM], Masa, Musey, Marba *bil-* ‘throwing knife’ [Shy], Azum *abílá* ‘kind of a throwing knife’; E 2 Lele *bòlòm* < **bil-om* < **bil-um*, vowel assim.) ‘throwing knife’. Cf. C 5 Mlg *biila* ‘Schere, scissors’.

//ECush Oromo *billaa* ‘sword, knife’ [Grg], Arb *bila*, Tsam *bilako* ‘knife’ [ATO], Om Wolt *billama* ‘knife’, Cush Kamb, Had *billawa*, Sid *billawa*, dull *pillawo*, Arb *billaw*, Oromo *billaa*, Som *billawe* [LmW: 319f]. According to Lamberti, Amh *billawa* ‘petit couteau de table’ is a Cush loan. Cf. Eg *ybn* [if **ybl*]. Sp ‘Art Messer’ [EG I: 63]. Consider the following forms as loans from Kanury *beli* ‘razor’ [Sol: 307], note one and the same root-shape through Chadic (typical of loan-words): W 3 Kupto *bèelí* ‘shaving knife’; C 2 Bura *bel* ‘razor’ [BIB]; 8 Lgw *bel*, Kus *bel* ‘razor’ [AIL, AIK]; 10 Masa, Ham *bèlè*, Gizey, Musey, Lew, Marba *vèl* ‘rasoir traditionel’, Musey *vella* ‘la lame du rasoir’ [ShyM], Azum *velâ* ‘razor’; E 5a Mig *bellé* ‘couteau-rasoir’, EDng *béllé* ‘le couteau très fin’; 5b Mubi *béeli* ‘rasoir’ [JgM].

210. *bVIV?- (*bVl-h- pl.?) ‘scales, bark’: C 10 Dzpw *bilè?è* ‘écaille’,

Dari *bəlē?* ‘bark, scales’, Peve *bɔlē?*, Hede *bəle?*, Marba *bloha* ‘bark, peel’ [Shy], Azum *bulo?â* ‘bark, husks’; E 2 Kaba *bala*, Nch *ko-bla* ‘peau’ [HmK].

Denom. verb. W 5 Jimi *bula* ‘to peel’ [Cs].

Deriv. verb in *-d-*: C ****mbVl-d-*** ‘to peel, bark’: 7 Mbuko *mbə/ulo-d'* ‘enlever la peau (maniok..)’, Mada *ómbló-d'* ‘arracher à la main, écorcher’, Mol *mbəl-doy* ‘to skin, peel’ [FsM]; 10 Azum *blo-da* ‘to strip (the outer layer of skin or bark) with the teeth’.

For a root-variant see №219. ****bVl-*** ‘skin, leather’ > ****bVl-k-*** ‘bark’.

Note that both roots are attested in the masa group (C 10).

211. *ba(y)l- ‘uvula, throat’: W ‘uvula’: 1 Hs *bèelii*; 2 Mghw *bèlbèl* [jgS]; 4 Miya *bèlebel* [Sch]; 5 Bogh *beelu* [Cs № 97]; 6 Duw *bàalu* ‘uvula’; E 4 (dial.) *bolol* ‘throat’; 5a Bid *béle* ‘gorge, voix’.

a. **(m)bul- ‘crop of a bird’:** W 2 Goem *bûl* ‘goitre’ (apud [TAS: 21]); 7 Bok *bûlè?* ‘Kropf’ [JgR]; C 6 cf. Gavar *mbil-gin* ‘goitre’; 8 Makari *mbulu* ‘crop of a bird’ [ALM].

For a primary verb cf. C 7 Mofu *-bál-* ‘donner à manger (à un enfant)’, derived noun: W 4 Wrj *bula?ana* ‘manger (carved from wood for putting food for animals)’ [BlS].

//Sem **bl̥* ‘to swallow, to eat’: Hbr *bāla*‘, Aram *b̥la*‘, Mand *bla*, Ug **bāl̥* [DRS: 68, Kg: 78], Arab *bl̥* ‘avaler’, II ‘donner à avaler’, *mabla*‘- ‘canal de deglutition, gorge’ [BK I: 161], Geez *bal̥a* ‘eat, consume’, *bəllā*‘food, that which is eaten up, residue of food, fodder’, EthSem *bl̥* ‘to eat’ > Cush: Bil *belaā*‘, Saho *bala?* [LsG: 94]. Cush Beja *bála* ‘Kehle, Schlund’ [RBd], Om Koyra *balaa* ‘neck’ [BžO], Berb Ghat *bélérbelé*, Fig *tabilult*, Snus *tabelhuht* (*bl̥h*) ‘luette’ [NZ: 53, 61], Eg *b̥n.t* [if *b̥l̥*] Pyr 1. ‘Hals o. ä eines Vogels?’; 2. ‘als menschlicher Körperteil: Hals o.ä. /neck of a bird, of a man?’ [EG I: 447].

[Coh: 46, AA 2 № 136: Ch Mghv, Bok, Bid, HSED №333, EDE II: 163-5].

212. *bVl- ‘(planting) stick, hoe’: W 3 Kupto *bèl* ‘planting stick’, *bèlé* ‘stick; flail, cudgel’, Bol *bèl* ‘long-handled planting hoe’ [GAB]; 4 Wrj *balale-na* ‘hoe used for planting’ [BlS]; E 5a EDng *bélá* ‘la houe à long manche ou le manche seul qui sert à sarcler’, Mig *béllá* ‘bâton (pour transporter de l'eau)’, Bid *béllà* ‘bâton servant de soutien pour le transport’. For Mig, Bid see [TN №304].

The next root is most probably cognate:

a. ***m-*b[ul]*- ‘heavy stick’**: W 3 Tng *bulāŋ* ‘stick, club’; 5 Zaar *mbúluŋ* ‘heavy wooden club’ [CrZ]; C 5 Hdi *mblaw* ‘bâton’ [Ech]; 7 Mafa *mbəlaw* ‘fléau (poure battre le mil)’; C 8 Bud *bilabila* ‘Pfahl, pole’ [LkBd], Makari *mbol-de* ‘kind of stick’ [ALM].

//Cf. Eg *nb³* [if nbl] seit Westcar ‘Tragstange für den Kornsack’, *nb³* 19 ‘Pfahl’ [EG II: 243], Sem Arab *wbl* frapper qqn avec une bâton’, *wabil-* gros bâton’ [BK II: 1478].

For C 7 Mofu *bébélé* (compensatory redupl.) ‘bois de soutien d'un hangar’ cf. Eg *b³* [if ‘bl] ‘der Stab zum Schlagen und als Herrschaftszeichen’ [EG I: 176].

213. **bVI*- ‘magic (spirit, sorcerer)’: W 4 Paa *bali* ‘bewitch’, *bàlà-mà* ‘witchcraft’ [MS], Wrj *bələ-mai* ‘sorcerer’ [BIS]; C 7a Skn *ma-mbəlum* ‘spirit, ghost’; 8 Kus *balai* ‘ghost (visible apparition)’, *mbilla* ‘magic’ [AIK]; E 3 Ndam *bəlí* ‘guérisseur, sorcerer’; 4 Barein (dial) *bòlí*, *boli*, *bōlí* ‘traditional healer’. Cf. E 5a Bid *bulo* ‘arbre sous lequel on dépose les biens du mort’.

//Sem Geez *balbala* ‘predict through omens’ [LsG: 95].

Cf. E 3 Smr *bələ* ‘guérir’, rather < Sem Arab *bll* ‘guérir, être guéri’ [BK I: 155].

214. **m-/b-bal*- ‘shoulder, upper arm’ > ‘wing’: W 2 Mghw *baal* ‘arm, hand’ [BlM], ‘upper arm’ [JgS] Ngas *beel* ‘shoulder’ [Fl], ‘shoulder blade’ [JgN], Mpñ *báál* ‘arm’; 3 Ngm *mbùlu* [NEH], , Pero té-*mbèl*, Dera *bálá-m* ‘shoulder’ [NmK], cf. Krkr *se-balia* ‘arm between elbow and shoulder’ [Kl]; 5 Plc *babələ*, Zul *bi-mbyaalá* ‘shoulder’ [Cs №85]; 7 Bok *baál* ‘Schulter’ [JgR]; C 1 Tera *be^mbálém* ‘shoulder’ [NmT]; 2 Chb *bàbál* ‘Schulter’ [HfC]; 7 cf. Gavar *ma-balaley*; 8 Makari *mbala* ‘upper arm, wing’ [ALM], Afd *mbala*, Sao, Gulfei, Makari *mbala*, Kus *mpala* ‘bras’ (<*mbala*, influenced by *pala* ‘wing’) [Sol: 257, AIK], Afd *bál-deh* ‘Flügel’ (‘arm’+‘bird’) [Sol: 121]; E 2 Lele *büblā* ‘shoulder’.

Accord. to [GrR], kotoko forms (including Log *mpala*) cognate with Mbuko *baža* ‘upper arm’.

//Sem Akk *nuballu* SB ‘(Adler-)Flügel’ [AHw: 799], ‘wing’ [CAD n₂: 306], Cush Beja *babáal*, *babáar* ‘Federn’ [RBd], PECush **baal*-‘feather’: Burji *baal-ée*, Afar *bal*, Dasenech *baal*, Had *bal-l-a²e*, Boni,

Bayso *baal*, Konso *palla* [SsB], Som *baal* ‘wing, feather’ [LIS], Oromo *bala* ‘wing’, *baala* ‘feather’ [Grg], HEC **baalle* ‘feather’: Kamb *baall-ita*, Sid *balle* [Hds], Om Kafa *baaloo* ‘feather’ (not in RK); Wolt *baalliy*, Dawro *balle* ‘feather’, Cush Gaw *paala* (*p-* < **b-*) [LmW: 320]; Berb Mzab, *tbulbult*, Nef *tebulbult* ‘plume d’oiseau’ [NZ: 55]. Cf. Sem Arab *wābil-at-* ‘tête du fémur; tête du bras, le haut de l’épaule’ [BK II: 1478].

[AA 2 №129: WCh Ngas, Mghv (Sura), C 8].

Consider the following Chadic and Cushitic forms as Arabic loans:
Ch W 3 Bure *báalé* ‘leaf, foliage’, Cush Arb *baala* ‘leaf’ [ATO], Oromo *baala* ‘leaf’ [LmW: 320]. Cf. Sem Arab *‘abāl-at-* ‘une feuille’ [BK I: 159].

215. *m-bVl- ‘dove’: W 1 Hs *bóolóo*; 2 Ngas *bul* [Fl], *mbul* [JgN], Mghv *mbul* [BLM], Mpñ *mbúl*, Chip *bul* [Kr] ‘dove’, Goem *bá1* ‘pigeon or dove’ gen. [Hlw]; 3 Kupto *mbólè* (gen.), Bure *mbuíul-dò* ‘dove’, Bol *mbole* ‘Senegal dove’ [GAB], Tng *mbole* ‘turtle-dove’; C 1 Tera *mbólá* ‘dove’ [NmT]; 7 Mada *óbłö* ‘pigeon sauvage sp.’; E 2 Gbr *bélu* ‘Taube’ [Luk]; 5 Bid *bályà* ‘tourterelle sp.’

//Sem Amh *bullal* ‘dove’, gurage Gogot, Soddo *bullal*, Muher *bulle*, Ezha *bunnayıt*, Chaha *bunyät*, etc. ‘pigeon’ > Cush Beja *belbel* ‘wilde Taube’, Oromo *bulbula* ‘Taube’ apud [SED I №60].

[Gr: 55, ISv: 17, AA 2 №134: Ch, EthSem, Geez *bābil* ‘name of a fictitious bird’, HSED №330].

On Eg *b3* Pyr ‘der Vogel, den die Hieroglyphe darstellt’ see [EDE II: 4f].

216. *(m)bal- ‘locust’: W 2 Mghv *mbwál* ‘grasshopper, locust’ (internal *-w-* pl.) [BLM], Mush *bwaal* ‘grasshopper’ [JgO]; C 9 Log *mbilim* ‘locust’ [AIL], *mbúllum* ‘Heuschrecke’ [LkL]; E 5 Bid *báalò* ‘crique-pèlerin’.

//Om Wolt *booliy* ‘locust’ [LmW: 320]. Cf. Sem Geez *nəbləs* ‘crique’ [LsG: 383].

217. *m-bVl- ‘flute’: 3 Bol *mbéele*, *méele* ‘type of flute’ [GAB]; C 3 FK *mbèlaaw* ‘flute’; 7 Mofu *bəláy* ‘grande flûte’, *mbálay* ‘kind of flûte’.

//Cf. Sem Amh *ənbilta* (> Geez *ʔənbiltā*), Tna *ʔəmbilta* ‘flute’ [LsG: 27].

Cf. W 2 Mghv *bél* ‘dogstooth grass; flute made from grass of this name’ [BlM], W 2 Ngas *beel* ‘musical wind instrument’ [Fl], *bél* ‘flute made from grass’ [JgN], Mpn *bél* ‘reed growing in water; musical wind instrument made from the stalks of *bél*’; C 10 Azum *bola* ‘a tall coarse grass which stem may be a half inch thick’.

218. C **bVL-N-* ‘flat/tomb-stone’: 5 Pod *bələma* ‘pierre plate pour fermer le tombeau’; 7 Zlg *belyj* ‘pierre plate qui couvre le tombeau’, Mbuko *bélélen* ‘pierre plat qui couvre le tombeau’, 7 Muy *bèlím* ‘tombstone’; 10 cf. Dari *bèlè bēlē* ‘assiette, plateau’.

Deriv.: C 7 Mada *blah* ‘à plat’.

Caus. in *-s-*: C 10 Lew *blás* (Masa, Marba *bás*) ‘aplanir, rendre plat’ [LexC], Azum *blasá* ‘to make flat’.

//Cf. Eg *yb'* [if ybl] ‘Stein des Brettspiels’ [EG I: 62], Sem Akk *billu* (a stone) SB [CAD b: 229].

219. **HVbVL-/*bVHVL- > *bVL-* ‘leather’: C 5a Hdi *bəli* ‘leather’, *bəla-vəya* ‘human skin’ (*vəya* ‘body’). Cf. W 1 1 Hs *búulà* ‘to become skinned e.g. of inside of thighs from riding’, *búl-čè* ‘to abrade’.

Deriv. ****bVL-k-* ‘bark, coque’:** 5a Hdi *bəla-ka-tavu* ‘bark’; 7 cf. Ould *ābēltyá* ‘cosses d’arbre’; 9 Mbara *bólòkò* ‘bark, écorce’; 10 Musey *bolokja* ‘écorce, coque, coquille, cosse’ [ShyM], Gizey, Masa, Marba *búlk*, Ham, Musey, Lew *bólók* ‘écorce, coquille; enveloppe’ [LexC], Masa *búlök-ŋā*, Musey *búlök-ŋā* ‘bark, peel’ [Shy]; E 1 Kera *bəlógi* ‘bark’.

220. **HVbVL > b/bVL-* ‘thigh’: C 1 Tera *bol* ‘thigh’, *bulbúl* ‘hip’ [NmT]; 9 Msg *bul* ‘Hüfte’, *bla* ‘Bein’ [LkM], *àbùl* [JgIb], Mnj *balak*, *bəl* ‘cuisse’; 10 Gizey, Masa, Ham, Musey *bál*, Lew, Marba *àbál* ‘cuisse’ [LexC], Azum *abalá* ‘thigh’ (no pl.); E 1 Kwn *tòoból* (< *t-Hbl*) [JgIb] ‘thigh’.

One wonders, if *bVL-* could stem from a form with a body-part’ pref. *h-*³²: **h-bVL- > hbVL- > bVL-*.

221. **HVbVL-/*bVHVL- > *bVL-* ‘horn’: W 2 Grk *bil*, Mnt *bulu* ‘horn’ [Fp], Grk *ból* [JgIb]; 3 Dera *bílí* [NmK], Bol *bálu-m* ‘horn of an

³² Cf. W. Leslau. A prefix *h-* in Egyptian, Modern South Arabian and Hausa. *Africa* 32/1, 1962, 65-68.

animal’, *bòlu-m* ‘horn (musical instrument made from animal horn)’ [GAB], Tng *bɔl* ‘horn with 2 holes’, Krkr *bèeli-m* [GK], Ngm *bàlù* ‘horn’ [NEH], Kupto *bóolù-m* ‘horn, musical instrument’, Krf *balla* [JgIb], Glm *bàli* [SchV], Maka *bele-m* [NmM], *bélé-m* [SvM]; C 7 Mol *abalan* ‘goat horn’ [FsM].

Forms in C 2: Bura *tómbèl* ‘horn of an animal’ [BLB] and similar may follow **tV-m-bVl-* (a rare case of a two-prefixed form?).

//Om Ari *baali*, *baali*, Dime *bal-tu* ‘horn’ [BnA].
[HSED № 192].

For cognates of Eg **bj* or **bj* ‘tusk or similar’ see [EDE II: 129f].

222. **bV(wV)l-* ‘spotted, multicolored’: W 6 WBade *bòolà-boolaan* ‘spots, spotted pattern’; C 8 Makari *bolbol* ‘spotted’ [AlM].

Denom. verb in *?a-* : **?a-bVl-* > *bVl-*: E 2 Lele *bāl* ‘être en plusieurs couleurs, to be multi-colored’, *bālé* ‘plusieurs couleurs’.

//Cush Burji *bull-anc-i* ‘grey, all mixed colors, spotted’ [SsB], Sem Akk *balālu* ‘to mix, brew beer, to knead, (in the stative) to be spotted, variegated’ [CAD b: 39]. Cf. Sem **blbl*, **bwl* ‘mélanger’ [DRS: 51]. For Akk ‘to knead’ cf. C 7 Mol *bolay* ‘to knead’ [FrM].

The following isoglosses may relate:

a. **buHvl-* > *bUL-* ‘yellow, brown’ (i.e. – ‘variegated’?): W 3 Bol *būl* ‘yellow’ [GAB]; 7 Fyer *bwèl* ‘rot, braun’ [JgR]; E 6 Mok *bólilé* ‘yellow’

//Cf. Sem Amh *bulla* ‘yellow, brown’ [SsB: 43], Cush Oromo *bullaa* ‘brownish (mule, etc.)’ [Grg].

b. W 5 Grnt *mbàli* ‘red’ [Hr]; 6 Duw *bəl* ‘red’.

Denom. verb in *m-*: C 10 Dari *mbàl* ‘(se) rouiller, teindre colorer en rouge’, Dzpw *mbàl* ‘teindre, colorer’.

223. **HVbal-* > *Hbal-* > **bal-* ‘strong, fat’: W 1 Hs *bíuléelée* ‘very fat’; 2 Mghv *bál* ‘strong, forceful’ [BLM], Mpñ *bál* ‘hard, strong’, Mush *bál* ‘to be strong’, *bál* (n.) ‘strength, force’ [JgO], Chip *bál* ‘strength’ [Kr], Ngas *báal* ‘to recover, get well, heal’ [JgN]; 7 Mada *bòlòl* ‘gros, épais’; 8 cf. Makari *balao* ‘to be ripe’ [AlM]; E 2 Lele *bāl* ‘avec force’. An Arabic loan?

Denom. in *?a-*: **?abVl-* > **bVbVl-* (compens. redupl.) 7 Mofu *-babəl-* ‘grossir, engraisser’.

//Sem Arab *'bl* ‘être gros, épais’, *'abil-* ‘gros, épais’, *'abalbal-* ‘grand,

fort, robuste, granite’ [BK II: 158f], cf. Berb Qab *bbelbel* ‘être gros, replet’ [NZ: 54].

Consider the following isogloss as a root-variant:

C **bVl(VH)*- ‘fat’ adj.: 3 Bana *bálbál* ‘épais’; 6 Buwal *blòx^w* ‘solid, fat’.

//Sem Tgr *balhit* ‘gros et épais’ (*blh*) [DRS: 66].

224. *baHVm- ‘to catch’: W 2 Ngas *baam* ‘to take away, snatch, seize’ [JgN], Goem *báam* ‘to seize or take away smth by force’ [Hlw], Mghw *bám* ‘to catch’ [BLM], Mpñ *bám* ‘to snatch’; E 5 Brg *bàamí*, Mig *báamó* ‘tenir, attraper’.

Derived nouns: W 1 Hs *bíumà* ‘a fish-trap’, *bíumà* ‘animal or bird trap’; 6 Duw, GBade *bamà* ‘hand fish trap’.

Cf. 3 Krkr *bámma* ‘net for carrying guinea-corn heads, fodder, etc.’.

225. *b[a]n- ‘to open’: W 1 Hs *bányè* ‘to open, uncover’; C 7 Mofu *báj*, *béj* ‘troué, ouvert’, Mada *bbàj* *bbàj* ‘ouvement, clairement’; 8 Makari *ban* ‘open, ouvert’ [ALM]; 10 Gizey *bùòj* ‘ouvrir’, Azum *bon-gà* ‘to open wide (by removing the opening or covering)’; E 1 Kera *binyì* (vowel assim.) ‘to open’.

//ECush Bayso, Orormo, Arb *ban-*, Konso *pan-* ‘to open’, Had *ban-* ‘to separate, distinguish’ [SsB, Hay].

Cf. [HSED №212].

Deriv.: W 6 GBade *bà/ən-tu* ‘to make a small opening, open a little’, WBade *bèn-tu* ‘to open smth (eyes or curtains) allowing one to look through’, Duw *bèn-to* ‘to pull open, open by separating (bag, eyes)’.

Cf. **bVnn-/-bVng-* (< **bVn-k-*) ‘hole’ (note a tenable semantic shift: ‘to open’ > ‘an opening’ > ‘a hole’): W 5 Zaar *mbuj* ‘hole in a trunk of a tree’; 5a EDng *béj* ‘le trou’, Mig *bùnnè* ‘trou’; 5b Brg *bàngó* ‘trou’, Mubi *bàj* ‘bouche; porte’³³ [JgM].

Denom verb in ?a: W 7 Bok *pibaj* (compensatory redupl.), Karfa *bwâ:nây* ‘to widen hole’ [RC].

The following isogloss may also cognate (consider a tenable semantic shift: ‘to open (wide)’ > ‘to stretch’).

a. ***ban-** ‘to stretch; be wide’: W 2 Mpñ *ban* ‘to stretch, weiden’, Ngas *ben* ‘broad, wide’ [Fl, JgN]; 3 Tng *ban-de* ‘to lay, stretch across or along’; C 4 Gude *bwáj* ‘wide’; 3 FK *bwàn-gá* ‘wide, broad’.

³³ For ECh < AA **bnk* ‘hole’ see [TN №173].

//Cf. Eg *bnbn* ‘to stretch out’/‘(sich) ausstrecken’ (apud TN №163 ‘to stretch wide’, this form can not be found in [EG: I]).

226. *bi/an- (sg. vers. pl.?) ‘**to bathe**’: W 3 Bol *binaa* ‘to wash, bathe’ [GAB], Ngm *bìnâ* [NEH], Tng *pine* ‘to bathe’, Pero *bínà* ‘to wash’, Dera *bínà* ‘bathing’ [NmK], Kupto *finéy* ‘to bathe, take a bath’; C 5 Mlg *bára* ‘baden, waschen’, Glv *bar-*, Wnd *bar-a* ‘to wash’ [JgIb]; 6 Buwal *ban* ‘to wash’, Gavar *ban* ‘laver’, *bàŋ* ‘se laver’, Mina *bán* ‘to wash body’ [FrM]; C 7 Dugwor *mébéréy* ‘laver’, Muy *ábàrāy*, Merey *bara*, Zlg *bara* ‘laver, nettoyer’, Ould *bā/ērīyà* ‘se laver’, Gis *bon* ‘sich waschen’, Vame *bun-*, Mbuko *banay*, Baka *báláy* ‘laver’ [BAS], Mol *balay* ‘to wash’ [FsM], Mada *ábàlá* ‘se laver, baigner’ (**bVn-* > *bVr-* > *bVl-*?); 7a Skn *banəvə* ‘to bathe’; 8 Makari *mban*, Kus *ban*, Log *bini* ‘se laver’ [Al], Zina *bànà* ‘to bathe’, Bud *béeno*, *byénnè* ‘waschen’ [LkBd], *bénú* ‘laver’ [Awg].

Deriv. C 7 Ould *báraká* ‘laver la saleté de.; s’éclaircir’.

Deriv. in *m-* ‘to dump’ (Caus.): 3 Bol *mbùunu* ‘to dump dry substance’ [GAB].

Deriv. in **a-* (to cause bathing?): W **?a-bwan* > *vway* (note –*w-* as an infix of pl.) ‘**to wash, clean smth**’: Goem *vwáy* ‘to wash or clean smth’ [Hlw], Mghv *vway* ‘to wash, cleanse’ [BlM], Ngas *vway* ‘to wash smth’ [JgN], Mpn *vwān* ‘to wash (hands, dishes)’, Mush *nvwang* ‘to wash’ [JgO]; 5 Grnt *vuni* ‘to wash’ (tr.) [Cs].

Cf. W 1 Hs *bùnaa* ‘permanently damp piece of ground’ (< **?a-bun-*, ‘to be permanently washed’).

//Ch **b-n-* ‘to wash, bathe’ [Nm], **b-n* ‘to wash’ [JgIb], CCh **bana* ‘wash’ (including Proto-Mafa **pana* [GrR].

For cognates of Eg *bn'n'* ‘baigner, plonger’ see [EDE II: 205f].

227. *bVn- ‘to build’: C 6 Mina *bíŋ* ‘to build’ [FrJ]; E 4 Sok *beenii* ‘to build’ [GrL]; 5b Mubi *beenii*, *bénì* [JgIb], *bénì*, *búnà* [JgM] ‘to build’. Cf. W 2 Ngas *bɔŋ* ‘pen with a stone rampart’ [JgN].

Derived noun: *(*k-*)*bin-* ‘**hut, room**’, *ban-* ‘**village**’ (pl.): W 1 Hs *béenée* ‘upper story of a building’; 2 Mnt *pin*, Grk *pin* ‘room’ [Fp, BIY], Goem *pìn* ‘hut (in a compound), room (in a house)’ [Hlw]; 3 Krkr *bèenù* ‘hut, room’ [GAB], Bol *bìn* ‘hut, room’, *bònò* ‘house, compound’ [GAB], Dera *bínò* ‘a distant town’ [NmK], Bele *bìn* ‘hut’, *bùnù* ‘compound, household’, Gera *bàna* ‘town’ [SchB], Ngm *bànâ*

‘small village’, *bàñò* [NEH], Maka *bìnò* [SvM] ‘compound, house’, Bure *bàan-dé* ‘compound, house’, Kupto *bàñin* ‘ward, hamlet; neighbourhood’; 4 Wrj *vin* ‘room’ [BlS]; 5 Dott *bən* ‘compound, house’, *ben* ‘grasshut, animal pen’ [CrD], Plc *bən*, Zul *bəni* ‘town, village’ [Cs №417-8], Geji *bəəj* town‘ [Cs №417]. Grnt *biij* ‘house’ [Ja], *bo-biij* ‘husband’ [Hr], Guus *vìin* ‘compound’, Zaar *vìin* ‘hut, room’ [CrG, Z]; C 1 Tera *bán gar* ‘village’ (*garu-k* ‘wall’) [NmT]; 3 FK *vènà* ‘sleeping room for husbands’; 4 Bata *vəne* ‘case’ [Mo], Bch *vine* ‘hut’ [JgIb], FM *kù-vu*, FB *kù-vun*, Mwl *bìn-tí*, Nzn *vine*, Gudu *viin* ‘hut’ [Kr]; 5 Pod *vira* ‘chambre’, Mlg *bəré* ‘Haus, Raum’, Wnd *bere* ‘room’ [Voc], *búre*, *brè* ‘maison’ [WfN], Wnd *kú-vra*, Dghw *ká-viré* ‘cornbin’ [JgIb], 5a Hdi *viy* ‘boy's room’, Lmn *ivyi* [ívèyì] ‘hut, room’ [Wff]; 6 Buwal *bèn* ‘bedroom (for men)’, Mina *bín* ‘house’, *bíj* ‘hut, room’ [FrJ]; 7 Gis *vej* [JgIb], Zlg *bír* ‘chambre de fils’, Merey *ber* ‘chambre à coucher’, Mol *ver* ‘chambre’ [FsM], Mofu *ver* ‘chambre’; 8 Log *vəni* ‘Hütte’ [LkL], Kus *vrio* ‘hut’, Makari *fin* ‘hut, nest’ [Al]; 9 Mnj *fùnú*, Mbara *fiy* (< **k-bVn-*) ‘maison’; 9a Gidar *biina* ‘hut’ [Mo: 46], *biinà* ‘roof’ [FrG]; E 5a Mabire *ben* ‘house’ [JnH], Bid *bèenà*, Mig *béj* ‘chambre, case’; 6 Mok *biinó* ‘case en paille’.

Velarization of the initial (*b-* > *-v-/f-*) may be provoked by prefixes, typical of derived nouns (cf. C 4 FM *kù-vu*, FB *kù-vun*, 5 Wnd *kú-vre*, Dghw *ká-viré* ‘hut’). Note CCh **vin* ‘hut’ [GrR].

//Sem *bny* ‘to build, create’: Akk *banū*, Phn *bny*, Pun *bn?*, *bny*, Aram *bənā*, Arab *banā(y)*, Ug *bnw*, Sab *bny*, Mhr *benu*, Soq *bene* [DRS: 71], Ug *bnt* ‘building, construction, creation’, Akk *binītu* ‘Gestaltung’ [DUL: 229], OffAram, Nab, Palm *bnyn* ‘building, construction’ [HJ: 178], Arab *biny-at-* ‘construction’ [BK I: 169], E Cush Som *beni* ‘hut’ [LIS], for Berb cognates see [AA 2 №112]. Note Eg *bnn* Totb ‘erzeugen o.ä.; generate, create’ [EG I: 460].

[Nm **bən*, JgIb **bn*, GrL: 297, Coh: 416, ISv: 15, HSED №261, 264].

228. *bVn- ‘to cook’: W 6 WBade *bənu* ‘to cook tuwo’, GBade *bəj*, Duw *bəno* ‘to cook’.

Deriv. in *m-* ‘to burn’: C 2 Mrg *mbənà* ‘to burn’ [JgIb].

Caus. in *?a-:* ****abVn- > ban-** ‘to heat, make warm, burn completely’: W 2 Goem *báan* ‘to make smth warm’ [Hlw], Mghv *báan* ‘verbrennen, versengen’ [JgS], 5 Dott *ban* ‘to heat up, warm up; burn’ [CrD]; E 3 Ndam *bənà* ‘bouillir (eau)’.

Deriv. ***ban-** ‘hot’: W 2 Chip *bán* ‘hotness’ [Kr], Goem *ban* ‘hot’ [Fp]; 5 Dwot *banii* ‘hot, difficult’ [CrD]; E 3 Ndam *bàn* ‘chaud (comme feu)’. For W 2, 5 see [TN №166 **bn* ‘warm’].

229. *bVn(V)- ‘to pierce’: W 2 Mpn *byāŋ* ‘to pierce’, *byàŋ* ‘to prick’; 3 Krkr *bìn-tu* ‘to be pierced, pierce’. Cf. 5 Dott *boj* ‘to pierce’ [CrD]. Derived nouns: a. ***bVn-** ‘sharp point’: W 3 Tng *bɔn* ‘arrow’; C 5 Lmn *mbànà* ‘spear’ [Wff]; 8 Log *bendəm* ‘Eckzahn’ [Luk], *vin* ‘molar tooth’ [All]; 9 Mnj *boj* ‘éperon’.

//Cf. Eg *bwn* (Pyr) ‘Bezeichnung der beiden Spitzen des Fischspeers’ [EG I: 455], for Eg-Tng see [TN №146].

b. ***bVn-** ‘horn’: W 3 Gera *bena* ‘horn’ [SchB]; E 6 Mok *búnnò* ‘corne à siffler’.

//ECush Som *buun* ‘conch horn, horn’ [LIS].

230. *(i)bVn- (< yVbVn-, a metath. variant of Sem (and AA) *byn) ‘to know, to think’: W 2 Mghv *bèn* ‘to assume, think, hope for’ [BlM], Mpn *bén* ‘to think, disuss’; 3 Krf *ban-*, Grm *-ban-*, Dera *bán* ‘to know’ [JgIb], Gera *bīn-mí*, Bele *mbón-kò*, Glm *bán-àalá* [SchB], Pero *pénò*, Bure *ban-* ‘to know’; 5 Dott *bən* ‘to be able, know’, Bogh *mabáŋ* ‘to know’ [Cs №743]; 7 Fyer *ben* ‘denken’ [JgR], Monguna *ben* ‘to think’ [RC] (possibly, a loan from W 2); C 3 FK *mbàná* ‘to be able, can’ [BlFK]; 6 Mina *báŋ* ‘to think’ [FrJ]; E 4 Sok *ibene* ‘lernen’ [Luk]; 5a Mab *ibina* ‘to know’ [JnH], Mig *’ibinò*, WDng *’ibinè*, EDng *ibinē*, 5b Brg *’ibini* ‘savoir, connaître, comprendre’.

//Sem Ug *bn* ‘understand’, Hbr *byn* ‘understand, pay attention’ [DUL: 222, KB: 121], Arab *byn* ‘être séparé; être clair, lucide, vident’, II stem ‘expliquer’ [BK:186], Geez *bayyana* ‘distinguish, notice, recognize, decide, judge’ > make clear’, Eth *byn* ‘become evident, decide’ [LsG: 115f], Phn *bnh* ‘intelligence’ [HJ: 173]. Arab *’bn* ‘juger, se former une opinion de qqch’ [BK I: 6].

For Geez ‘to make clear’ cf. WDng *béŋjè* (< *byn*) ‘éclairer avec du feu’. [HSED №275].

Accord. To [GrR], CCh FK *mbàná*, 4 Sharwa *mban* ‘capable’ and 7 Gemzek *mambana* ‘be capable’ follow CCh **mba* ‘to be able’.

231. *bi/un- ‘bran’: W 3 Bol *biinà* [GAB], Dera *biinà* ‘bran’ [NmK], Kupto *biinán* ‘sorghum sp.; chaff’; 6 Duw *viinau* ‘bran’ (note **bin-* >

vin); C 2 Bura *bina* ‘outside shell of guinea-corn’ [BlB], Mrg *bíná* ‘bran’ [HfM: 22]; 5 Pod *bina* ‘son de mil’; 9 Mnj *bəraa* ‘son de mil’; 10 Dzpw *bainà* ‘son (mil)’, Dari *bāynā* ‘son de céréale’, Musey *banana* ‘son de grain’ (int. –a- pl.) [ShyM]; E 2 Lele *bìnā*, *bìn-dā* ‘son’; 5a EDng *bùnyā* ‘la bâle, la capsule du grain’, WDng *búnyà* ‘balle du grain’.

For W 3 Kupto ‘sorghum sp.’ cf. E 2 Lele *bèné* ‘k of sorgho’, 3 Ndam *bíné* ‘sorgho’.

For a denom. verb in *'a-* see W 5 Grnt *boyi* ‘to peel’ [Hr].

//ECush Som *buunše* ‘husk’ [LIS], Berb Ghad *bina* ‘dêchet de mouture de mil’ (< Ch) [NZ: 73].

232. *bin- ‘feather’: W 7 DB *b(i)yàŋ* (< *bi-a-ŋ*, internal –a- pl.) [RC], *bâŋ* [JgR] ‘feather’, Mangar *bâŋ* ‘feather, leaf’ [RC]; C 4 Jimj *bínún*, Sharwa *bibī̄n* ‘feather, wing’, Gude *bibinà* ‘feather’ [BrJ]; E 3 Ndam *dá-biny* ‘plume’.

a. ***bin- ‘arm’:** W 7 Fyer *beŋ* [JgR]; C 1 Tera *bən* [NmT], Jara *binna* [Meek].

//Cf. Om Shin *bangá*, Zayse *paange* ‘Feder, Flügel’ [LSh].

Cf. [HSED №211].

233. *bVn(n)- ‘field, farm’: W 2 Mghv *bóŋ* ‘farmland (around the compound)’ [BlM], C 9 Mnj *boŋor* ‘butte de terre’; E 5a ‘EDng *bāanjày* coll. ‘les champs de sorgho’; 6 Mok *bóni-só* ‘parcelle de champ à cultiver’ (-so is a suff. of sing.)

Denom. verb in **'a-·*abVŋ->bVŋ-*: W 2 Mpn *byāŋ* ‘to start farming for the first time’.

Derived noun: C 10 Musey *banayya* ‘grande houe pour faire les sillons’ [ShyM].

//Eg *bn.t* (n) ‘Art Acker’ [EG I: 458]; ECush Som *ban* ‘field, plain out of doors’ [LIS], Sem Arab *bunan-at-* ‘jardine riche en plantes et en fleurs’ [BK I: 166]. Consider the following forms as Arabisms: W 2 Mghv *boŋ* ‘garden’ [JgS]; 7 Bok *bibin* ‘Garten’ [JgR].

234. *ban- ‘kind of band, leather apron for men’: W 2 Ngas (*m*)*bèné* ‘apron (made of leather) for man’ [JgN], Mush *byàn* ‘leather apron’ [JgO]; E 2 Lele *banya* ‘cache-sexe masc.’; 6 Mok *báanè* ‘ceinture en peau d’antilope’.

//Eg *wbn.t* Sp ‘Name der Mumienbinde für die Stirn’ [EG I: 294]. May be cognate with the next root.

235. *bVnn-/*bVwVn- ‘rope, tendon, net’: C 7 (compensatory redupl.) Merey *bəbəŋ* ‘corde avec laquelle on lie le boeuf’, Mofu *bébeŋ, bábaŋ* ‘muselière (pour les moutons)’, Zlg *bwà̄nwa* ‘cache-sexe de fibres’; 9 Msg *boane* (< **bwn*) ‘Netz’ [LkM]; 10 Dzpw *bōŋ* ‘bride (cheval)’, *bēŋ* ‘filet fin’; E 6 Mok *bônné* ‘corde’; E 5a WDng *bînyînyò* ‘nerfs du corps’, Mig *bînnye* ‘tendon’. Cf. E 3 Tum *bēŋ* ‘piège sp.’.

//Cf. Cush Saho *baanto* ‘kind of vegetal rope; tendon’ [Vr].

Denom. verb in *²a-: *²**aban-** >***ban-** ‘to tie’: C 7 Mbuko *bán* ‘lier, attacher’, Merey *bar* ‘lier’; 8 Log *bunun he* ‘fasten bind (load)’, *bán* ‘binden’ [ALL, LkL], Kus *ban he* ‘to tie, fasten, bind’ [AIK]. Cf. Bud *pénai, fenai* ‘to tie’ [LkBd].

Derived noun: C 5a Hdi *banava* ‘belt’; E 2 Lele *bèndè* ‘filet sp’.

//Berb Ghad *aben* ‘attacher une bête à un point fixe’, Ahag *ahen* [NZ: 72]. [AA 2I № 113: Logone, Berb].

236. *buwan- ‘God, sky, rain’: W 5 Guus von (< *bwVn*) ‘rain’ [CrG]; C 9a Gdr *bùwèn, bùná* ‘rain’ [FrG]; E 4 Mawa *bwan* ‘God, sky’ [RbM], Ubi *bwane*, Mawa *buan* ‘ciel’ [HuJ]; 5a Mabire *bɔj* ‘ciel’ [HuJ], EDng *búj* ‘le devin, le mystérieux, dieu’, Mig *búj* ‘dieu de pluie, ciel’, Bid *bùj* ‘Dieu’, 5b Mubi *bùn* ‘sky’ [Luk], *bùn* ‘God’ [JgM], Jegu *bój* ‘Himmel, Gott’, Tor *bùj* ‘Dieu’. Cf. C 10 Dzpw *bùŋōr* ‘arc-en-ciel, pluie’.

[ISv: 15: Gdr, Msg, Mubi, cf. HSED №326, EDE II: 162].

237. *bVn- ‘bad’: W 5 Tala *bonnu* ‘bad’ [Cs], E 4 Sok *bénaa* ‘hässlich, schlecht’ [Luk]. Cf. W 3 Kupto *bòné* ‘hard, tough, punishment’, derived verb: *bònì-téy* ‘to punish’.

a. *bVn- ‘to be cruel’: W 3 Tng *bana* ‘anger, rage’; 5 Zaar *bæn* ‘to be arrogant, quarrelsome’ [CrZ]; C 4 Gude *mbiinə* ‘to behave cruelly’; 5a Mig *bòŋ-sò* ‘se facher’.

Derived noun: W 1 Hs *bìunaa* ‘a fierce, hot-tempered, quarrelsome person’. For a link between ‘bad’ and ‘cruel’ see Eg.

//Eg *byn* (AR) ‘schlecht’, *byn* Nä ‘die Böse’ [EG I: 442f].

[ISv: 20: Eg-Sokoro, HSED №263].

238. *(m)bVn- ‘good, beautiful, sweet’: W 2 Bol *ben* ‘good’ [Bn]; 4 Miya *mbána*, Kar *mban* ‘good, beautiful’ [SkNB], Wrj *mbanai* ‘good, fine’ [BlS]; 5 Pol *mbon*, Zul *búuni*, Zaar *mbuní*, Bogh *puynún*, Buli *mbəná*, Geji *mbuntíi* ‘good’ [Cs №474]; C 5a Hdi *bənbəna* ‘very sweet’; 6 Daba *vén* ‘très bon, très beau’; 8 Makari *mbin* ‘right, good’ [ALM]; cf. E 2 Lele *biny* ‘fleurir’.

//Sem Akk *banū* ‘to be pleasant, friendly (said of the face)’, *bunnū* to ‘beautify; to treat kindly’ (from OB on), *banū* ‘well-formed, well-made (said of staples, objects), fine, beautiful’, *bunnū* SB ‘beautiful’ [CAD b: 90, 81, 319]. For WCh-Akk see [TN №157]. Cf. Eg *bnj*, later *bnr* ‘süss sein; sweet’ [EDE II: 200-205].

For Akk *bunnū* ‘to treat kindly’, *banū* ‘to be pleasant, friendly’ see the following Ch root:

a. ***ban- ‘to help’:** W 3 Bol *banà* ‘help, aid’, *bànanu* ‘to help’ [GAB], Kupto *bàna* ‘donation’, *mbàntéy* ‘to help, give a hand, lift smth’; C 1 Gaa *mbán* ‘to please’ [MN]; 7 Mofu *-bábən-* ‘amadouer, choyer qqn pour retenir chez soi, prendre soin de qqn’; E 5a EDng *bànye* ‘avoir pitié’.

Note a possible root-variant:

b. ***bVl- ‘good, beautiful, sweet’:** W 5 Dott *bəli* ‘sweet’; 6 Duw *bəlān* ‘nice, beautiful, good’ : E 1 Kera *bàl* ‘good’,

Cf. C 7 Muy *ābəlāy* ‘to be good, beautiful’ (? ‘to become good, beautiful’)

Consider the following forms as Arabic loans: W 4 Siri *amberi* ‘good, beautiful’ [SkNB]; C 1 Tera *mbari* ‘good, beautiful’ [NmT]. Note Sem Arab *bāri* ‘chose belle, excellent’ [BK I: 112].

239. *bar- ‘to shine’: W 2 Mush *bara* ‘to shine’ [JgO]; 7 (drived noun) DB *bará* ‘Blitz and Donner’ [JgR]; C 9 Msg *bára* ‘blitzen, wetterleuchten; to shine’ [LkM]; E 5a cf. Bid *ber* ‘apparaître (lune)’.

Deriv. in *-t-*: C Ould *mbərlžà* (voicng in contact) ‘étoile’; 9 Msg *ábrałai* ‘Perle’.

//Sem Akk *birbirrū* (OB) ‘luminosity, light’, *barīru* SB ‘rays’ cf. *barāru* A ‘sparkle’?? [CAD b: 245, 111], cf. Akk *brr* ‘étinceler (?)’ [DRS: 87], Geez *brh* ‘to shine, be bright, light up, be clear’, Tgr *bärha*, Tna *bärhe*, Amh *bärra* ‘to shine’, Bilin *barh* ‘clear’ [LsG: 103]; Cush Saho, Afar *beeraa* ‘sunny weather’, Som *birbiray* ‘to sparkle, twinkle,

blink' [LJS].

For Geez *bəruh* 'happy' cf. CCh 3 FK *mbərīvà* 'lucky'.

Note a possible derived noun: ***bur-** 'day, morning': C 10 'day': Gizey, Masa, Lew, Marba *bùr*, Ham, Musey *bùù*, Masa, Lew, Marba *bùr* [LexC], Azum *burà*; E 5b Mubi *bùrbùrù* 'morning'.

//Cush Afar *beeraa*, Saho id., Oromo *bóru* 'der Morgige Tag, Morgen' [RA], ECush Som *bari*, Rend *ber'i* 'east' [Sam], Arb *barri* 'dawn, tomorrow' [Hay], Ong *bē'ri* 'to dawn', *baram* 'tomorrow' [FIO], *baram* 'tomorrow' [SaT], SOmot Hamer, Kara *bu(u)ri* 'be morning' [BnA]. The following cognates stem from a root-varian (cf. Sem **brr*, **brh* vers. *bhr).

a. ***bVr-** (< *bHr) 'to shine': C 4 Gude *bərə* 'to shine, be bright'. Deriv. C 3 Bana *b(ə)rali* 'étinceler'

Derived nouns: W 3 Bol *bebire* 'sparks' [GAB]; 7 Bok *byáar* 'Stern' [JgR].

//Sem Hbr *bāhīr* 'clear', Aram *bəhar* 'be clear', Syr (*ša*) *bahar* 'to glorify', (Mand) *bhr*, *bar* 'to shine' [LsG: 103f], Arab *bhr* 'surpasser (en beauté, en bravoure); 'briller par qq qualité, briller parmi les autres' [BK I: 170].

Alternatively, Ch ***bVr-** may cognate with Eg *'b'* [if 'br] D18 'funkeln, leuchten (von der Sonne und von funkeln den Gegenständen)', *'b'* Gr 'Licht' [EG I: 177], Om Kafa *borea* 'Licht' [RK].

[AA 2 №115, HSED №327].

240. *b[a]r- 'to cover, to wrap': C 2 Bura *barwa* 'to wrap an object inside smth.' [BlB]; 7 cf. Ould -vàr 'couvrir d'une toit' (irreg. v-); 9 Mbara *bàr* 'couvrir une maison, to thatch', Mulwi *bìrì* 'étendre (un tissu), couvrir (avec un tissu)'; 10 Ham, Masa, Gizey *bàr*, Musey *bàà* (< **bar#*, compensatory lengthening of the vowel) couvrir avec tissu' [LexC], Azum *barà* 'to cover smth.', Masa *bàr* '(se) couvrir' [CC], Musey *baara* 'couvrir' [ShyM]; E 5a WDng *bóòrè* 'couvrir'.

Derived noun: C 7 Mbuko *vévar* (< bVvVr < bVbVr) 'toit, roof'

//Berb Qab *sburr* 'se couvrir', Mzab *bberber* 'couvrir', Ghad *berber* 'être couvert, enveloppé', Ahag *beruberet* 'couvrir', NIG *barbar* 'fermer', Ghat *sberber* 'boucher' [NZ: 91].

Cf. [TN №191].

For Ghat 'boucher' cf. E 5a EDng *bàr-dē* 'boucher un petit trou ou une fente, colmater; aveugler'.

For a ‘Wanderwort’³⁴ cf.: Ch W 1 Hs *bàrgoo* ‘blanket’, C 7 Mafa *borukʷa* ‘couverture’ (a loan), E 1 Kera *bòrgó* ‘Decke’ (a loan). C 5 Mlg *bárkʷa* ‘Decke’, Pod *bərəkwa* ‘couverture’, Wnd *barkwa* [Voc]; 7 Zlg *bàràgwa*, Ould *bàrkù* ‘couverture’, also Saharan Kanuri *borko*, Tubu *borgo*, Sem Amh, ECush *bullukko* ‘blanket’ [SkH: 17].

241. *bar- ‘to make love, marry’: W 4 Paa *bar* ‘to marry’ [MS]; C 1 Tera *bəri* ‘to marry’ (irreg. initial) [NmT]; C 5a Hdi *baray* ‘to seduce’; 7 Mofu *-mbər-* ‘faire l’amour, coïter’, Chuv *mémbrèy* ‘faire l’amour’; 10 Dzpw *bàr* ‘cohabiter’.

Derived nouns: W 1 Hs *bárbáráa* ‘copulation of birds or animals; keenness, eagerness’, *búuri* ‘longing, keen wish’; C 7 Mol *obor* ‘lust’ [FsM].

//Cf. Berb Ghad *ebr* ‘vouloir, désirer’ [NZ: 90].

242. *bi/ur- ‘to dig’: 5 Zul *bori* ‘to dig’ [Cs №788]; E 2 Lele *biír* ‘to dig’ [Jglb].

Derived verb: E 5a EDng *bòrsē* ‘labourer la terre (phacochère)’.

Derived noun: ***bur-** ‘grave, pit’: W 3 Kupto *fúré*, Pero *púré*, Tng *pure*, Ngm, Dera *bùré* [NEH, NmK], Bol *bùré* ‘grave’ [GAB]; C 7 cf. Muy *bùr-zùm* ‘hole where pot-clay or building-clay is extracted’; E 5a EDng *bùrí* ‘ancien trou de puits’.

Denom. verb in *?a-*: 5a Mig *?àbìrò* ‘déterrre, creuser un trou avec les ongles’.

Derived noun: W 1 Hs *búr-sò* ‘hole in the ground used as a fireplace’

Derived noun ***bVr-m-** ‘pit, burrow’: W 1 Hs *bàramii* ‘an excavation, mine’; 3 Bol *borom* ‘burrow (esp. - in termite hill)’; C 7 Mbuko *bérom* ‘trou (que l’on creusé), nid d’une poulet’.

Denom. verb: E 5a Mig *bàrmò* ‘élargir (trou)’.

//Sem Arab *b'r* (u) ‘creuser un puits, une fosse, cacher’ [BK I: 79], Sab *bwr* ‘grave’ [SD: 33], Hbr *bōr* (< *b'r*) ‘hollow dug in the ground in which to cook’ [KB: 114], Sem ***bi/u'r-** ‘well, cisterne’: Akk *būrtu* MR, SB ‘well, cistern; fish pond, waterhole; hole, pit’ from OB on [CAD b: 335], OArab *byr'*, Imp *b'r*, Sab *b'r*, Hbr *bə'er* ‘puits’, Arab *bi'r-* ‘puits’, *bu'ur-* ‘fosse’, etc. [DRS: 41, LsG: 102, cf. Kg: 192]. ECush Oromo *bor* ‘to dig’ [Grg], Om Dime *burbur*, Hamer *bar* ‘hole’ [BnA], Berb Ghad *i-ber* ‘canale, rigole d’irrigation’ [NZ: 91]. Cf. Eg

³⁴ note, however, that Ch forms (labelled as loans) look like derived nouns in *-k-*.

bɔb' ‘Loch’ and *bjɔ* ‘Bergwerk’, for all possible cognates see [EDE II: 56-63, 122-125].

//Coh: 384, AA 2 №142 **bɔr* ‘pit, well; to dig’: Tng, Lele, ron, HSED №319 ‘dig’, №164 ‘pit, well’].

243. *(m)bVr- ‘to jump, to fly’: W 1 Hs *bıraa*, *bùraa* (irreg. initial, probably motivated by the semantics) ‘to jump, hop’; 6 Daba *mbər* ‘voler, s'envoler, sauter’, Mbedam *mbər* ‘to fly’ [LMb], Gavar *mbir* ‘sauter’, Mina *mbír* [FrJ], Buwal *"bēr* ‘to jump’, Musgoi *mbir* ‘s'envoler’ [Mo: 30]; 7 Ould *bər* idf. ‘bruit de vol’; 8 Zina *buywrà* ‘to jump’ (internal pl.?); 9 Mlw *bırı* ‘voler (oiseau)’, Mnj *bára* ‘s'envoler’ [Mo: 30]; E 1 Mobu *béré* ‘to jump’, Ngam *bré* ‘voler (pour oiseau)’; 4 Barein (dial. Jalkiya) *béró* ‘to jump’; 5a EDng *béré* ‘sauter en dansant’; 5b Mubi *bır* ‘voler (pour oiseau)’ [JgM], Brg *bərì* ‘voler’.

Derivatives: C 4 Gude *bərə-dá* ‘hopping on one foot’; 7 Merey *mbər-ža* ‘sauter’.

Note possible derived nouns: C 7 Mada *mábráh* ‘chauve’; E 5a Bid *bùrbùrum* ‘ver sp. (volant)’.

//Sem Geez *brr* ‘to fly, run fast’, Tgr *bärra*, Tna Harari *bärärä*, Gur, Amh *bärrärä* ‘to fly’ [LsG: 107], Jib *ebré* ‘to jump’ [JnJ], ECush Burji *burr-*, Saho *ibrir* ‘to fly’ [SsB], Ong *barara* ‘to fly’, HECush **barar-* ‘to fly?’ (but a loan) Oromo *barara*, Gede'o *birret-*, Had *barar-*, Kamb *burriy-* ‘to fly’ [Hds]; Kemant *bərt-* ‘to jump’ [ApAg]. For Geez ‘to run fast’ cf. W 1 Hs *bàaburà* ‘to gallop a horse quickly’. Cf. 3 Kupto *bərè* ‘dance sp.’; C 7 Ould *bərəkw* ‘danse d'un cabri’ [AA 2 №119 **bVr* ‘to fly, to jump’, HSED №291, TN №1879 **br* ‘to jump’].

The following insect names may be derived from ‘to fly’/‘to jump’:

a.****bVr-* ‘a fly’:** W 5 Zaar *bərám* ‘a fly’ [CrZ]; C 7 Mofu *béber* ‘taon’, E 5b Tor *bèreera* ‘papillon’, cf. also W 3 Krkr *barmažè* ‘horse-fly’; C 8 Makari *abra-susu*, Log *barababiyo* ‘dragonfly’ [Al].

//Cf. Om Bench *bur* ‘fly (of the biting type)’ [LmW: 320].

b. W 3 ****m-bVr-* ‘bee’:** Bol *mboori* ‘bee which makes honey in a hole in the ground’ [GAB], Kupto *mbırı̄rı̄* ‘mason wasp’. For confusion of semantics ‘fly’ & ‘bee’ see SCush.

//SCush rift **ba'ara* ‘flies’: Irg, Gor *ba'ár* ‘flies’, Alg *ba'ara* ‘flies, honey bees’, **ba'arimo* ‘fly’ (with suff. *-imo* for singulatives): Irg

ba'a(a)rm̥o, Gor *ba'armó* ‘fly, honey bee’, Bur *ba'arimoo* [Kies].
c. C *(*m-*)**bar-** ‘**locust, grasshopper**’: 6 Daba *màbàrà* ‘kind of criquet’ (clearly derived < Daba *mbàr* ‘voler, s’envoler, sauter’); 10 Gizey Masa *bár*, Ham, Musey *báa*, Lew, Marba *'ábár* ‘criquet sp., sauterelle’ [LexC], Musey *baara* ‘locust’ [ShyM], Azum *abárá* ‘edible grasshoppers’.
//Berb MC *aburri*, Sen, Rif *abarru* ‘criquet’, Izn, Snus *aberru* ‘sauterelle’ [NZ: 95]. A loan from the masa gr. to Berber is likely.

244. *bVr- ‘to cut, chop’: C 4 Gude *bura* ‘to chop, hammer’; 9 Mnj *biri(bara)* ‘taller’ (‘tailler’?) [TrMnj: 62], E 2 Lele *bòr* ‘casser, couper’. Derivatives: W 1 Hs *abàarà* ‘large round-bottomed dug out canoe as used by the Kakanda tribe’; E 4 Mawa *bòra* ‘bois coupé’. Derived verbs: C 5 Pod *birèkə* ‘ciseler’; 7 Ould *-bèrèm* ‘couper plusieurs plantes à la fois’, Mada *ábràč* ‘ronger, fendiller’. Derived noun: a. W 1 Hs *béerà* ‘a small razor used in tattooing’. //Sem Arab *brw* ‘dégrasser avec une hache’ [BK I: 119], Hbr *br²* D-stem ‘cut down (forest)’ [KB: 147]), Pun *br²* ‘graveur (?)’ [DRS: 80]. b. cf. C 1 Tera *mbir* ‘sore, plaie’ [NmT]; 10 Dari *mbír* ‘wound’ //ECush Sam (Som, Rend) **nabar* ‘sign cut into skin’ [Sam]. For Sem Pun *br²* ‘graveur’ cf. C 3 FK *bàvìrā* ‘scar, mark on the body’; E 4 Mawa *burus* ‘cicatrice’; 5a EDng *bīrčò* ‘la cicatrice’. For a root variant see the next issue.

245. *bVHWr- > *bVr- ‘to tattoo, cut’: W 3 Tng *beri* ‘to cut round, circumcise’, Glm *bár-* ‘to cut off; slaughter (by cutting throat)’ [SchB], Kupto *bèbiréy* ‘to cut into small pieces’; C 6 Daba *bòr* ‘tatouer comme marque tribale or signe de beauté’; 10 Ham, Marba *bír*, Musey *bíí* (< **bír*, compensatory lengthening) ‘graver du bois, scarifier’, Gizey, Masa *bír* ‘inciser, tatouer’, Gizey, Masa, Ham *bír* ‘scarifier’ [LexC]; E 5a WDng *bòr* ‘tatouer’, Bid *bòr* ‘fendiller, fissurer’. Derived noun: W 3 Pero *béra* ‘face cutting’. Derived verbs.: W 3 Kupto *bèr-téy* ‘to cut, slaughter; to stop (a child from breast feeding)’; 6 Duw *bár-nìyo* ‘to cut open (fish, fowl)’; E 1 Kera *bír-lí* ‘to tattoo’; 5a EDng *bír-čē* ‘ébrancher, élaguer’. //Sem Arab *bhr* ‘fendre, déchirer (se dit de la pratique de fendre l’oreille à une chamelle)’ [BK: 88], ECush Dah *biir-* ‘to cut grass, mow’ [Eh: 138]. Cf. [HSED №188].

246. *bVr- ‘to insult’: W 3 Bol *bàriyà* ‘admonishment, scolding’ [GAB]; 5 Grnt *bari* [Ja], Dott *ber* ‘to abuse, insult’ [Cr], Zaar *ver* ‘to insult’ [CrZ]; C 7 Mafa *béra* ‘insulter’.

//Cush Afar (Saho, Oromo id.) *abaar* ‘fluchen, verfluchen; curse’ [RA], Oromo *abbaara* ‘curse, scold’ [Grg].

The following forms may relate: C 7 Mada *ómbròv* ‘dénigrer, critiquer’//Sem Arab *'br* ‘calomnier ou diffamer un absent’, *'ibr-at-* ‘méchanceté, médisanse’ [BK I: 3f].

247. *bVr- ‘to drill a hole’: W 3 Dera *bore* ‘to make a hole in’ [NmK], cf. Glm *mbáry-àalá* ‘to stab’ [SchB]; C 7 Muy *ábàr* ‘to drill a hole by turning a bit’, cf. Ould *bàràf* idf. ‘action de percer qqch’.

Derived noun: W 3 Bol *bèrem* ‘hole into which water of a pond is draines, leaving fish exposed’ [GAB].

//SOm Hamer *bar*, Dime *burbur* ‘hole’ [FlA].

Derived verbs: C 7 Mafa *búrc-* ‘percer (un mur)’, Mofu *-vávárk^w-* (<*bávárk^w* < *-bábárk^w-*) ‘percer qqch dur’.

//Cf. Eg *wb'* [if wbr] ‘bohren, öffnen’ [EG I: 290]. Sem Geez *brr* ‘pierce, penetrate, go through’ > ‘passage’, Amh *bärrära* ‘pierce, make a hole in a water jug’ > ‘door, gate’, Tgr *bärabära* ‘pierce’, Hbr *bārūr* in *hes bārūr* ‘penetrating arrow’ [LsG: 107], note Hbr *brr* qal ‘polish, point (arrow)’ [KB: 156]. For Sem ‘penetrate, point an arrow’ and Ch ‘to pierce’ see the next isogloss (though, the common origin is not doubtless):

a. *m/*a-bVr- arrow’: W 5 Guus *mbàrà* ‘arrow, sting, quill of insect’, Zaar *mbàrà* ‘arrow’ [Cs]; 7 Mundat *àbàbar* ‘arrow’ [RC]; C 9 Msg *bárau* ‘Pfeil’ [LkM], Mnj *baraw* ‘arrow’; 10 Masa *báraw* [Mo: 53], Musey *mburura* [ShyM], Gizey *bùr* ‘arrow’ [LexC]; E 1 Kera *abooro* ‘arrow’.

Denom. verb in *?a-: ?abar-* > C 7 Mol *bar* ‘to shoot an arrow’ [FsM]. Cf. also W 1 Hs *bàaraa* ‘shooting’.

For Guus *mbàrà* ‘arrow, sting, quill of insect’ cf. Sem Arab *'br* ‘piquer (scorpion)’, *'ibr-at-* ‘aiguille’ [BK I: 3].

248. *bVVr-/*bVr- (< *baHar-) ‘to hunt, hunting’: W 1 cf. Hs *bàaraa* ‘aiming, shooting at an onject’; 2 Grk *bàr* ‘to hunt’ [BlY]; 3 Bol *bàrà* ‘hunting, fishing’ [GAB], Dera *bárà* ‘hunting’ [NmK], Ngm

bàarà ‘hunting’ [NEH], Maka *bàarà* ‘to hunt’, Krf *bar-* ‘to chase, hunt’, Dera *barà*, Grm *ybara* ‘to hunt’ [SchV], Krkr *bàaràa* ‘hunting, festival’ [GK], Pero *párà* ‘hunt’ n., Kupto *fárá* ‘hunting with spear’, Tangale *pari* ‘look for, search’, *para* ‘hunting’; 6 Ngz *báru* ‘to hunt’ (< Kanuri *bara* ??), Duw *bàarà* ‘hunting’; C 1 Tera (dial.) *bərə* ‘hunting’ [Kr]; 2 Bura *bara* ‘to seek, want, be in love’ [BLB], Bura *bàrà* ‘suchen, jagen, wollen’ [HfB], Chb *bàrà* ‘suchen, jagen, wollen’ [HfC], *bàrà-ntákù* ‘hunting’ [Kr]; 7 Vame *bər-* ‘chasser’, *bər-* ‘to catch’; 10 Azum *berá* ‘to hunt on foot, in the heat of the day when the animals are resting’, Musey *beera* ‘la chasse, aller faire la chasse’ [ShyM], Gizey, Masa, Ham *bér* ‘chercher’ [LexC]; E 1 Kera *béeré* ‘to hunt’; 5a WDng *báriyè* ‘aller chercher’; 6 cf. Mok *béerè* ‘enquête, surveillance (en cachette)’.

For C 2 ‘to seek, hunt, want, _be in love’ cf. №241. ***bar- ‘to make love, marry’.**

Deriv. W 3 Ngm *bàr-tâ* look for, seek out’ [NEH]; C 2 Bura *bara-ta* ‘suchen’ [HfB: 295].

Deriv in *-g-*: C 9 Mlw *bìrgì* ‘chasser, faire la chasse’, Mnj *birgi* ‘chasser’ ; E 6 Mok *bôrge* ‘chasser (animaux)’. Cf. C 8 Makari *birži* (< *birgi*) ‘fishing net’ (note Akk, Sab ‘to fish’) [ALM].

Derived noun: W 1 Hs *bûréerée* ‘bird snare’; C 5 Pod *bəra* ‘filet de pêche’; 6 Gavar *ma-bar* ‘filet’.

Derived noun in *-m-/n-*: W 1 Hs *bàramii* ‘bird-snare’; C 5a Hdi *barum* ‘handmade tool to catch grasshoppers’; 10 Lew, Marba *bírim* ‘nasse à poisson’ [LexC]; E 5a WDng *bárnè* ‘grand filet’.

//Sem Akk *ba'aru* ‘to catch (fish, birds), to hunt’ from OB on [CAD b: 2], *na-bāru, na-bār-tu* ‘trap, cage’ [CAD n1: 21], Soq *b'r* ‘to fish’ , Mhr *biter* (T-stem) [LsS: 92, DRS: 41], Amh *abarrärär* ‘chase’ [Hds].

Emphatization of *b-* (observed in a few Ch languages) and a long root vowel point to a “weak” laryngeal (‘ or ‘) as C₂ on the PCh level.

Nilo-Saharan Kanuri *bara* ‘to hunt’, lacking an etymology, is rather a Ch loan.

[StH №VIII.2]. Cf. ***pVr- ‘to hunt, to search’.**

249. *bVr- ‘(to) fear’: W 5 ***bVr-t-** ‘fear’ n.: Jimi *bwattóo* (assim. < *bwarto*), Plc *bár-ti*, Zul *bər-ti* [Cs № 431], Zaar *vər-tá* ‘fear’ [CrZ], Dott *bər-ti* ‘to have fear’ [CrD]; C 5 Pod *mbəra* ‘to have fear’; 7 Ould *mbəmbər* ‘peur, fear’; E 5a WDng *báriyè* ‘craindre’.

//Berb Qab *abrari* ‘crantif’ [NZ: 94], Sem Geez *bar'a* ‘tremble, shake’ Tgr *bär'a* ‘fear’ [LsG: 101], Syrian-Arab *barba'* ‘frighten’ [LsG: 101]. For WDng-Qab-Tgr see [TN №221].

For W 1 Hs *bári* (< *bHr*) ‘shivering, trembling (whether from cold, fear, joy, or anything else)’ cf. Sem **bhr* > Arab *bhr* ‘être saisi et enterdit de frayeur’ [BK I: 88], Geez *bahrara* ‘to be startled, fear, frightend’ [LsG: 92].

250. *bVr- ‘to spread, extend’: W 2 Mghv *bígir* (internal -k- pl.) ‘to expose, spread’, *bweer* ‘to spread open’; C 5 Pod *mbálá* ‘étendre, spread out’; 9 Mnj *biri* ‘(s’) étaler’, Mlw *bíri* ‘étendre (un tissu) couvrir avec un tissu’; 10 Musey *baara* ‘étendre, tendre’ [ShyM], E 5a Bid *bírray* ‘étendre (habit, tissu)’.

Deriv.: C 6 Buwal *blè-k* ‘to spread over’.

251. *bVr- ‘to help’: W 3 Krkr *mbíru* ‘to save’ [GK]; 4 Miya *bər* ‘to help, save’ [Sch], Paa *mbùre* ‘to help’ [MS], Siri, Mburku *bur*, Tsagu *buru*, Miya, Jmb *mbur* ‘to help’ [SkNB]; 5a Hdi *mbəray* ‘to support’; 6 Mina *mbəl* ‘to help’ [FrJ]; 7 Baka *mé-mber* ‘care for’ [BAS], Mol *mbar* ‘to heal, cure, care for’ [FsM], Vame *mbərà* ‘to care for, take care’ [GrR].

Note №255. *(m)bVr- ‘to recover’. Terms for ‘to help, to cure’ and ‘to recover, to cure’ are confused in CCh.

252. *bVr- ‘to separate, detach’: E 4 Barein (dial) *báaró* ‘to separate’. E 1 Kwn *ábáré* ‘dénouer, détacher’. Cf. C 3 Bana *vri* (< *-*bri* ‘be separated’) ‘champ partagé parmi co-épouses’.

Derived noun: W 2 Ngas *byàar* ‘forked stick’ [JgN].

Derived noun ‘part’: C 9 Mnj *bəriy* ‘part’; E 6 Mok *bár-tà* ‘moitié’.

Derived verb: ***bVr-ʒ-** ‘to separate (people), select’: C 6 Buwal *vrè-ʒ* (regressive fricativization) ‘to separate out’, 7 Mafa *vər-ʒ-* ‘démarier, séparer des personnes; lancer une pierre pour éloigner qqn’.

//Sem Geez, Hbr *brr* ‘separate, choose, select’, Arab *brr* VIII ‘be separated from one’s friends’, Aram *bərar* ‘separate, choose’ [LsG: 107], Cush Bilin *babar* ‘trennen’ (< Arab?) [RB]. For Sem ‘choose, select’ cf. ECh 2 Lele *bār* ‘choisir’.

a. W 3 Tng *beréi* ‘between’; C 8 Makari *boro* ‘distance between two rows of plants’ [AlM].

//Sem Akk *biri*, *beri*, *bari* ‘between’ from OA on , *birītu* ‘in-between terrain, alley, balk (between fields)’ = *bīru* from OAk on [CAD: 246, 252, 266].

For a root-variant cf. Sem **bhr*: Akk *bēru*, *beħēru* ‘select, choose’ from OAk on, Hbr *bāhar*, Aram jp. *bēħar*, Sab *bhr* ‘élire’ [DRS: 56, CAD b: 212] and Ch **vVr-* (< *v-H-r* < *b-H-r*) ‘to choose’: C 9 Mnj *viri* ‘trier’; 10 Musey *vaara* ‘trier; choisir, ramasser; essuyer’ [ShyM], Azum *vara* ‘to select (from among others)’; E 1 Kera *vèrè* ‘to choose’. Cf. [HSED №187].

253. *bVr- ‘to sleep, spend the night’: W 1 Hs *bárčii* ‘sleep; death’; 3 Tng *burbura* idf. ‘sleeping’; C 10 Dzpw *bár* ‘dormir, se coucher’, Ham, Musey *bìù*, Gizey, Masa, Lew, Marba *bír* ‘passer la nuit’ [LexC], Musey *buuna* ‘passer la nuit, séjourner, coucher’ [ShyM], Masa *bùr* ‘coucher, poser’, Azum *burà* ‘to lie down (asleep)’.

//Cf. ECush Rend *bary* ‘to sleep (at a place)’ [pG], Arb *barj-* ‘to sleep’ [Hay].

254. *(m)bVr- ‘to tear’: C 2 Klб *mbar-* ‘rip, tear’ [MuK]; E 1 Mobi *béré* ‘arracher’.

Derived verb in -*ķ*- ‘to tear off’: C 7 Mafa *bərķ-* ‘arracher (une branche d’arbre)’; 9 Mnj *birži* ‘casser en tirant, rompre’.

Derived verbs: C 7 Mofu -*mbár-č-* ‘rompre, casser (une corde)’; E 1 Kera *bár-gé* ‘ausreissen’.

b. (Intensive stem) ***bVr- ‘to tear (with force)’:** W 3 Kupto *bákrey* (pluract. in -*k-*) ‘to tear’; 9 Mbara *bíráw* ‘déchirer’.

Derived verbs: E 1 Kera (complete action) *bár-tí* ‘arracher avec force’; 5 WDng *bárčè* ‘ébranler, arracher avec la main’.

255. *b[u]rm- ‘to step on, cave in’: W 1 Hs *búrmá* ‘to stab deeply with (foot into a hidden hole); partially cave in (ground, mud roof)’; 4 Miya *bərmay* ‘to cave in’ [Sch].

Cf. E 1 Kera *bəlám* coll. ‘trace, Spur’.

a. ***burum- ‘clay’:** W 4 Paa *bürümá* ‘clay’ [MS]; C 7 Muy *brùm* ‘potter’s kiln’.

//Sem Akk *barāmu* A (OB) ‘to seal (a tablet, an opening), to engrave’, *birmu* (MB) ‘seal impression’ [CAD b:101, 258], *barāmu* B (OB) [CAD b:103] ‘to be speckled, multicolored’.

256. *(m)bVr- ‘to recover’: W 2 Ngas *baar* ‘to get well, recover’ [Fl], Mghv *bàr* ‘to recover’ [JgS], ‘to survive, heal’ [BLM], Mpñ *bár*, Chip *bar* [JgC] ‘to recover’; C 3 Bana *mb(ə)lí* ‘commencer à pousser, se remettre, être guéri’; 6 Daba *mbəl* ‘reverdir; ressusciter’, Gavar *mbəl* ‘get well, recover’ [Vj]; 7 Gis *mbul* ‘genesen, recover’, *mbol* ‘heilen, genesen’, Mada *ámbál* ‘guérir’, Mafa *mbəl-* ‘sauver, guérir’ Ould-*mbəl* ‘guérir’, Mofu -*mbəl-* ‘guérir, reprendre (une plant repiquée), ressusciter’, Chuv *mémbələy* ‘sauver’, Muy *ámbəl* ‘to sprout again, survive’, Mbuko *mbar* ‘être guéri, donner naissance’, Zulgo *mbəl (dár)* ‘guérir’; 8 Makari *biro* ‘be mature’; E 1 Kera *biiri* ‘ranimer, ressusciter’.

Cf. CCh **mbir* ‘to get well’ [GrR].

//Sem Akk *bāru* ‘to stay firm, stable, in good health’ OAkk on [CAD b: 125], Hbr *br²* ‘zehr fat sein’ [KB: 147], Aram talm *bārī* ‘sain, fort, gras’ [DRS: 80], Sab *bry* ‘keep os healthy’ [SD: 32], Arab *br²* (a) ‘guérir’ [BK I: 104].

[AA 2 №116 **bwr*, **bry*/[?] ‘to become fattened, healthy; fat’: Sem, WCh 2, Gisiga, for Ch ‘oil’ see*(m)*bur-* ‘oil, butter’].

257. *(m)bVr- ‘to become tired, weak’: C 5 Pod *mbára* ‘s’aggraver’; 9 Log *mbári* ‘ermüden; tired’ [LkL]; 9a Gdr *ívrè* (velarization in contact) ‘to weaken’ [FrG]; E Bid *béeri*, *bère* ‘faiblesse, parresse’.

//Sem Arab *bry* ‘exténuer, amaigrir une bête de somme, une monture (se dit des voyages et des fatigues)’ [BK I: 119]. Cf. Berb Nig *barori* ‘misère’ [NZ: 94].

Accord. to [Gr: 90] and [TN №322], Log and Bid are cognate with Arab magr *bār* ‘ne pas trouver d’acheteur (marchandise); être très fatigué’ [DRS: 53] < Arab *bwr* ‘périr, se perdre; avoir été fait en pure perte’. Note also Arab *bawr-*, *bawār-* ‘manque de débit, stagnation de la commerce’ [BK I: 177] and W 3 Ngm *mbura* ‘to become poor’ [NEH], Bol *mbùrè* ‘poverty, lack’ [GAB].

258. *bVH Vr-/*bVw Vr > bVb Vr- (compensatory redupl.) > bVv Vr- > vVv Vr- ‘to burn’: W 3 Kupto *biuréy* ‘to separate the grains of corn from the chaff by roasting in the fire; to roast millet’; 4 Wrj *vivirau* ‘burning the hair off an animal before cooking’ [BLS]; C 1 Tera *vara* ‘to burn’ [Kr]; 6 Mbedam *var* ‘brûler’ [NdP], Buwal *vár* ‘to burn lightly’; 7 Mafa *báwár* ‘chauffer, brûler’, cf. Ould *bàr* idf. ‘prendre

feu'; E 5a WDng *bòòrè* 'activer le feu'.

Cf. W 3 Pero *píirò*; C 2 Mrg *mbèri* [HfM: 19] 'to make a fire'.

Derived noun: W 5 Zaar *mburiúŋ* 'hearth' [CrZ]; 7 DB *mburú*, Karfa *mbùruš* 'fire-place, hearth' [RC]. Cf. Berb MC *abraw* 'trou du feu, foyer' [NZ: 121].

Cf.: ECh ***k-/t-bVr-*** 'ash': 1 Kera *kóráy* (< *k-bVr-*, with a pref. of coll. nouns) [JgIb]; 2 Kaba *təri*, Lele *tibrè* [JgIb]; 3 Tum *dàbér*, Smr *dàbrîny*, Ndam *dàbrîny*, all < *t-bVr-(n-)*. According to [JgIb], these forms should be compared with Nubian *obur(ti)*, Murie, Shilluk *bur*, Songai Djerma *boron*. "All this may indicate that we are dealing with an old areal lexical item" [JgIb: 2].

//Sem Ug, Hbr *b'r* 'to burn', Geez *ba'ara* 'eat up completely, burn up, set (a field) on fire' (may be a transcription of the Hbr root, but cf. Tgr *barä'e* 'the fire broke out') [LsG: 84]. Cush agaw Bilin *birbir* 'brennen' [RB].

259. **bVr-* 'to turn (into)': W 2 Ngas *baar* 'to become dislocated; to become (a trader; big)' [JgN], 'to become mad' [Fl], Mush *mbakar* 'to turn' (internal *-k-* pl.) [JgO]; Mpñ *brán* 'to turn into, become'; C 9 Mlw *bìriyí* 'se transformer'. Cf. [TN №184].

Deriv. in *-d-* C 5 Pod *bərəda* 'tordre', 7 Mafa *bərd-* 'tordre (un couvrir, membre)', Ould *-mbərād'* 'tordre, extraire en tournant', Cf W 3 Bol *bargilu* 'sprain, dislocate, slip out of place',

260. **Hbr* > **bar-* 'to divide, separate, crack': W 1 Hs *báarà* 'to split a kola-nut into cotyledons'; 3 Gera *báarè-mí* 'to break (stick, etc. in pieces)' [SchB], Pero *bwárò* 'to share, separate', Dera *bibiré* (compensatory prefixation) 'to crack (hands due to cold)' [NmK]; 6 Ngz *bérú* 'to separate a unitary thing into parts', WBade *bérū* 'to split in two, sepatrate in halves, crack', *bərbərū* 'to break adhering things off'; C 6 Buwal *bar* 'to crack'; 7 Mofu *-bər-* 'se fendre (mur, bois)'; 9 Mulwi *bírwí* 'séparer, diviser, partager', Mnj *bírwí* 'diviser'; 10 Gizey, Lew *báráw*, Masa, Ham *búrów*, Musey *bórów* 'diviser, partager' [LexC].

Derived noun 'a part, share': W 1 Hs *báryà* 'portion of a compound, house; section of a fence'; C 9 Mnj *bəraw* 'partage'.

Cf. W 3 Kupto *bórbór* 'path, line, street; crack, split, gap'.

Deriv. in *-ç-*: C 5a Lmn *bərca* 'divide or cut into two'; E 1 Kera *bársé*

‘diviser’.

Deriv. in *-k*: W 2 Ngas *búrk* ‘to break up (soil)’ [JgN].

//Sem Arab *hbr* ‘partager, couper viande en gros morceaux’ [BK II: 1379].

261. W*bVr-/C *mbVr- ‘to crack, break’: W 3 Tng *bire* ‘to crack (house, soil)’, Bure *ber-* ‘to break’, Pero *bírù* ‘to beat’; C 7 Mol *mbərway* ‘to destroy violently’ [FsM]; 7a Skn *mbara* ‘to break (as of a stick)’; 10 Azum *mbru-ka* ‘to break pieces off’.

Derived noun: W 1 Hs *bà-mbàraa* ‘coarsely ground millet flour’.

//Cf. ECush Som *bururay* ‘break up’ [LIS: 55].

Deriv. in *-s* ‘to crumble, grind’: C 7 Muy *ábrùsāy* ‘to crumble’; E 5aWDng *bôrsè* ‘écraser à demi’, EDng *bòrsē* ‘concasser, écraser’, Mig *bòrzò* ‘écraser à moitié’.

Cf. C 5 Pod *mbárəža* ‘to crack; fendre les grains’.

Judging by derivatives, Chadic *(m)bVr- ‘to crack, break’ could also mean ‘to grind coarsely’ or similar. If so, the following Berber forms may be cognate: Berb Qab *bri* ‘moudre, broyer, concasser’, MC *brey* ‘moudre’, Rif *brey* ‘concasser (grains)’, Shilh *bri* ‘moudre, broyer’ [NZ: 123].

It is not clear, if the next root may also be cognate (as a derived noun of the verb *bVr- ‘to break > to grind coarsely’).

262. *bur- ‘flour’: W 1 Hs *búrì*, *bírì*, *búrbúr-kò* ‘the flour in which balls of fura are rolled’; E 2 Kaba *kú-bərà*, Lele *kú-brà*; 3 Smr *búrá* ‘flour’ [JgIb], *bróe* ‘Mehl’ [Luk], Tum *bar* ‘flour’ (irregular initial). //Cush Som *bur* ‘flour, powder’ [LIS], Sem Arab *burbür* (*brbr*) ‘blé broyé’ [DRS: 81].

Denom. verb.: E 6 Mok *?òbbírá* ‘piler’.

Some more forms may be taken for derivatives in *-b* from the denom.:

***?VbVr- > bVr-> bVr-b- ‘to grind (coarsely)’:** W 1 Hs *bárzà* ‘to grind coarsely’; 7 Mofu *-báržaw-*, *bábárž-* (compensatory redupl.) ‘concasser (mil), moudre (grossièrement pour la première fois)’.

Cf. C7 7 Mol *borcay* v. ‘first pounding’ [FsM].

[HSED №224, TN №193].

263. *bur- ‘sand, dust’: W 2 Ngas *bur* ‘sand, dust’, *bur wus* ‘the ashes’ (*wus* ‘fire’) [Fl]; 3 Kupto *búrbúr* ‘sand, soil, ground, dust, dirt’;

C 6 Mina *bər-tik* ‘dust’ [FrJ], Mbedam *bər-tik* ‘ash’ [NdM]; 8 Log *búra*, *bíura* ‘Sand, Staub’ [LkL], *bura* ‘dust’ [AIL]; C 10 Marba *bùbùr* ‘terre sablonneuse’, cf. Musey *barra* ‘la poussière de mil pilé’ [ShyM], Azum *bra-dà* ‘grain-dust’.

Cf. C 9a Gdr *burduku* ‘earth’ [Mo: 19], Mlg *barúdu* ‘Pulver’.

The following compound (with an unidentified component) may relate:

E 5a Mig *bùrú-n-tùllé*, EDng *bùrí-n-tál* coll. ‘la poussière’ //Sem Arab *bary-* ‘terre, surtout ce qui est à la surface du sol, comme sable, poussière’ [BK I: 120], Cush Som *boor* ‘dust’, *bur'o* ‘sandy hill’ [LIS], Saho *buure* ‘soil’ [Vr].

Note W 7 DB, Bok, Monguna *búrà*, Karfa *áburiük* ‘dust’ [JgR, RC]; C 10 Dari *bərīm* ‘dust’. There is no explanation of the initial up to now, but cf. SCush Dahalo *búrune* ‘dust’ [TD].

Redupl. forms in numerous Ch languages (Ngz, Bade *bərbər*, Mlg *bárəbáre*, Gude *bárábär* ‘dust’, etc.) are Kanuri loans.

264. **b[ar]*- ‘kind of corn (millet)’: W 3 Kupto *bárna* ‘guinea corn sp.’; C 2 Bura *bari* ‘pink guinea corn variety’ [BLB]; 5a Hdi *burbur* ‘corn’; 8 Zina *bàbàrà*, Log *babra* ‘maize, corn’ [AIL], Log *báa-beraa* ‘ägyptischer Mais, millet’ [LkL]; 10 Azum *boborá* ‘unripe grain’; E 5 WDng *bùür* ‘grain jeté à la volée’. Cf. W 3 Krkr *biryaa* ‘unripe millet heads for roasting’.

a. **bar[k]-sorgho*: C 10 Musey *borokka* ‘k of sorgho’ [ShyM], Gizey *bòrgéy* ‘mil – sorgo précoce’ (early) [LexC]; E 1 Kera *bòrgóy* ‘mil (sorgho)’; 7 Kaj *bargi* ‘sorgho’.

Cf. W 6 Ngz *bárakau* ‘festival after crops are planted’, E 6 Mok *búùré* ‘fiest of ripe corn’.

//Sem Akk *baru* (a cereal) lex* [CAD b: 115], Akk *burru* (a cereal) Mari [CAD b: 330], Arab *burr-* ‘grain, wheat’ [BK I: 103], Sab *br* ‘wheat’ [Bl: 59], Soq *bor* ‘froment’, Mhr *barr*, Jib *barr* [LsS: 98], PWSem **burr-* ‘wheat’ [Kg:203]. SCush Bur *bariya* ‘grain of corn’ [Kies], Berb Ahag *a-bōra* ‘sorgho á gros grains’ [NZ: 93].

[AA 2 №118: Sem, berb, Logone, MtF: **ba/u(?)r-* ‘cereal’ (including Ch forms for ‘yams’ and ‘ground nut’), cf. HSED №224].

The following isogloss may be cognate:

W 6 Ngz *barbari* ‘gruel’; C 4 Bch *bùrey*, Mwl *búrō* ‘gruel’ [Kr].

//Eg *bɔy* [if bry] ‘Etwas essbares aus Getreide/food made of grain’ [EG I: 417].

265. *(ba)bar-/*mbur- ‘gazelle, antelope’: W 1 Hs *bàreewaa* ‘red-fronted or Dorcas gazelle’; 3 Kupto *bíri*, pl. *bèndén* ‘antelope sp. (big)’; 4 Paa *babar*, Siri *babari* ‘gazella-dama’, Tsagu *burā-mən* ‘gazelle’ [SkNB], Paa *bàbár* ‘roan antelope’ [MS]; 5 Zul *bar-námi* ‘roan antelope’ (Buli *nam* ‘duiker’) [Cs №238], Guus *bur-to* ‘ground hornbill’ [CrG]; C 10 Gizey, Masa *bòr*, Ham, Musey *bòò*, Lew *bòbór*, Marba *bùbór* ‘céphalophe de Grimm (duiker)’ [LexC], Masa *bo?ora* ‘duiker’ [JgIb], Azum *bòbórá* ‘duiker’; E 1 Kwn *mā-bárā* ‘duiker’ [JgIb]; 2 Lele *mbúr* ‘cobe onctueux (Cobe Defassa)’; 3 Ndam *bùri* ‘cobe onctueux’.

a. C 9 Mnj *baryam* ‘cob de Buffon’, Mbara *bàriyàm* ‘redunca; Bohor reedbuck’ (note *yam* ‘water’); 10 Azum *bariama* ‘male sp. of antelope’, *bariamba* ‘female sp.’.

//Berb Ahag *é-beray* ‘faon d’antelope addax’, Ayr *ébäräy* ‘faon d’oryx, addax’ [NZ: 125], Om Kafa *borewoo* ‘die Gazelle’ [RK], SCush rift Bur *ba?uru* ‘oryx antelope’ [Ehr: 135].

[AA 2 №108 B, Ch Hausa, Paa, Siri; HSED №217].

266. *bir- (< *biHr-) ‘herd’ (n.): W 3 Krkr *biiri* ‘a herd, flock’ [GK], Ngm *bíri* ‘herd’ [NEH]; 6 Ngz *bári* ‘herd of animals’; C 2 Bura *bri* ‘herd of cattle’, *bribri* ‘very large herd of animals or flock of birds’ [BLB]; 3 FK *bàrrí* ‘herd of cows’; 6 Buwal *bré* ‘herd’; 7a Skn *biri* ‘herd of domestic animals’.

a. ***bir-k- ‘bull’:** W 3 Dera *bírik* ‘bull’ [NmK]; C 7 Mafa *virek-* ‘taurillon’; 8 Bud *bergá* ‘Büffel’ [LkBd], cf. Makari *mbirga* ‘herd of cattle, sheep’ [ALM]; E 4 Ubi *bòrgù* (vowel assim.); 5 Bid *birka* ‘vache’ [HuJ], *birkì* ‘taureau, vache, troupeau’, WDng *bérki* ‘bovin male, boeuf, taureau’, EDng *bérkí* ‘le bœuf, le taureau’, *bérkā* ‘la vache’, *bärkäy* coll. ‘les boeufs, les bêtes (en général)’.

a. E 4 Mawa *bur* ‘vache, boeuf’; 6 Mok *búru* m., *bür-só* (with a sing. suff.) f. ‘boeuf’.

Deriv. **‘to become rich’:** W 3 Krkr *bíri-d* ‘wealth, riches’. Cf. W 2 Goem *bû:r* ‘become rich or wealthy in smth’ [HIw]; C 6 Daba *mbùrū* ‘la richesse’. For the semantics cf. [ApAg: 41f ‘cattle’].

//Sem Akk *bīru* ‘bull, yound cattle’ MB, SB [CAD b: 266], Sabaic *b̄r* n. s. & coll. cattle, head of cattle’ [SD: 26], Hebrew *bə̄r* cattle, livestock’, Aram (Jud) *bə̄r(ā)* ‘grazing animal, cattle’, Syriac *bə̄rā*, Neo-Syrian *b̄rā* ‘cattle’, Geez *bə̄r* ‘ox, bull, horned cattle’, Tgr, Tna

bá'ray ‘ox, bull’, Arabic *ba'īr-* ‘camel’ [SED: №53 **bV'Vr-* ‘household animal; beast of burden’, Sem **bV'Vr-* ‘bull’ [Kg: 205], Cush Som *bar-ta* ‘livestock’ [LIS], Berb MC *taburrit* ‘troupeau’ [NZ: 125].

Not only in Chadic but also in Semitic (likely – in AA) the primary semantics was ‘cattle, herd’, with a shift to ‘bull’ in Akkadian and Ethio-Sem (contrary – in SED and Kg). For Cush agaw **bir-a* ‘ox, bull’, Afar *be'ra* ‘young bull’, Saho *be'éra*, Kamb *boora* ‘ox’, etc., as possible Ethiosem loans see [ApAg: 109].

[HSED №185].

267. **bir-* ‘enclosure, small structure’: W 3 Bol *biri* ‘corral for cattle’ [GAB]; 5 Buli *àber* ‘hut’ [Cs]; 6 WBade *bèràabèran* ‘granary’, Duw *bèra* ‘granary, in a shape of a bottle’; C 8 Bud *beri* ‘Einfriedung, enclosure’ [LkBd]. Cf. C 7 Mol *børa* ‘granary’ (irreg. initial).

b. **bir-n-* (pl.) ‘village’: W 1 Hs *bírnii* ‘(walled) town, the wall of a town, a mound round a farm’; C 3 Bana *bèrnì* ‘ville’, pl. *bèrnì-xì*; 4 cf. 4 Gude *værənə* ‘villlage, neighbourhood’; 5 Pod *bærəna* ‘ville’; 7 Ould *bèrà* ‘village’.

Cf. Kanuri *børnyi* ‘large town surrounded by wall’, Songai *birni* ‘fortified village’ [SkH]. A loan from Hausa?

//Sem Akk *birtu* ‘citadel, castle’ from OB on [CAD B: 261], Hbr *bīrā* ‘castle’, Aram *byrh* ‘fortress, temple, sanctuary’ < Akk [KB: 122, JH: 155, DRS: 63]. Cf. Cush Arb *baara* ‘hut’ [Hay]. [HSED №359].

268. **bVr-(w)-* ‘(cotton) cloth’: W 1 Hs *búrà* ‘white cloth’; C 10 Dari *mbòràw*, Dzpw *mbóráó* ‘cotton, cloth(es)’, Musey *baraw-na* ‘vêtement’, *baraw-ra* ‘cotton, chemise’ [ShyM], Masa *bàraw* ‘coton’, Musey *bàràw*, Ham, Lew, Marba *bàrú* ‘cotton, bande étoffe’, Mus *bàràw*, Lew *bàrúw*, Marba *bàrú* ‘habit’ [LexC]; E 2 Lele *bàrù* ‘cotton’. //Sem Akk *barru* (or *parru*) OAk (a piece of apparel) [CAD b: 113], Cush Saho *boor*, *buur*, Afar *boru* ‘das Leibtuch’ [RA], Om Kafa *buuroo* ‘das Leibtuch, womit die Körper eingehült wird’ [RK].

269. **bVr-* ‘ram’: W 4 Tsagu *baaren* ‘ram’ [SkNB]; 5 Buli *béra* ‘ram’ [Cs №230]; C 5 Wnd *avire*, Pod *viira* ‘agneau’ [Mo: 21].

a. **m-bVr-* ‘sheep’: W 5 Buli *mberra*, Geji *mbella*³⁵, Jimi *mburra* [JgIb], *mbùra*, Grnt *mbòrò* [Cs].

³⁵ Cannot follow AA *(*wa*)*bil-* ‘small cattle’ as in [SED №245].

b. Deriv.****m*-*bVr*-(K)-** ‘ram’: W 4 Mburku *mbur-gu* [SkNB], Miya *mbər-gu* ‘ram’ [Sch].

Cf. C 10 Musey, Lew, Marba *mbràj* ‘bélier castré’ [LexC], Musey *mbarayya* ‘le mouton castré’ [ShyM], Azum *mbrangâ* ‘castrated sheep, mature’.

//ECush Som *baraar-ka* coll. ‘lamb, lambs’ [LIS].
[HSED №341].

270. **bVr*- (or ***HVbVr**, note compensatory reduplication in CCh) ‘**field**’: C 4 Gude *bà-bárá* ‘open field, farm’; 7 Muy *bù-bùr* ‘tilled field’; E 1 Kwn *kō-bárā* ‘field’; 4 Sok *bər-sù* ‘field’ [JgIb]; 5a WDng *bûr-dà*, *bûr-dûwā* ‘champ d'arachides ou de pois de terre’, Mig *bâr-če* ‘jachère’.

//Sem Akk *aburru* ‘field or pasture by the city wall’ from OB [CAD a: 90]; ECush Som *beer* ‘farm, garden’, *beero* ‘farms, plantations’ [LIS]. Boni *beer* ‘garden’ [Sam]; SCush rift Alg *burabura* (redupl.) ‘cultivated ground’ [Eh].

Denom. verb: ***(*a*)*bVr*- ‘to cultivate, to hoe’**: C 7 Mada *óbbòr* ‘biner devant de semer’.

a. Deriv. in *-s-*: W 6 Duw *bərùs-čüwo* ‘to hoe up’; C 9 Mbara *búrsì* ‘to hoe’; E 5a Mig *bòrzò* (voicing in contact) ‘remuer la terre pour préparer les semences des sésames’.

b. Derived verbs: C 7 Mafa *bûr-h^w-* ‘labourer à la houe’, *vûr-h^w-* ‘labourer, retourner la terre’. (note that *bur-* & *vur-* becoming free varants in CCh); E 5a Bid *bere-t* ‘sarcler, biner; to weed, hoe’ (totality ext.), W 4 Jmb *bər-dà* ‘to cultivate’ [SkNB].

//Old Cush (Cush-Om) ****abu?**r*- ‘to cultivate’**: Om Yemsa *bul-* ‘cultivate’, ECush Alaba *abuurr* ‘to cultivate’, Had *abuull-* ‘to cultivate, plough’, Sid *habuur, hawuur* ‘cultivate, plant’ (with ‘parasitic *h-*, compensating lenition of *-b-*’) Som *abuur*, Afar *-ub'ur* ‘to cultivate’ [LmW: 313], Cush agaw Hamir *baruw* ‘auflockern die Erde mit einem Karst’ [RCh]. Som *beeray* ‘to farm, sow, cultivate, plant’ [LIS]. Sem Geez *ba'ara* ‘dig, plough, break clods’, *mab'ər* ‘one who ploughs, plough, instrument for digging’, *məb'ār* ‘instrument for digging’ > Cush Afar *-ub'ur-* ‘to cultivate’ [LsG: 84],

Cf. MtF №17 (Mada, Mig forms are included). For Eg *b'* ‘hauen’ as a possible cognate of Hamir and numerous alternative etymologies see [EDE II: 26-29].

Derived nouns:

c. ***bVr-/*bVwVr- furrow**: W 3 Krkr *booro* ‘ridgegrow’ [GK], Bol *booro* ‘furrow’ [GAB]; 5 Zaar *m-bári* ‘perpendicular ridge limiting a field at both ends’ [CrZ]; C 6 Daba *bàrày* ‘le sillon’.

d. ***bVr-m-** (with a suff. of instruments) **‘hoe’**: C 7 Merey *bàràm*; 10 Masa *bòrom* [CC]; 9a Gdr *bár-daw* [GdD]. Cf. Cf. C 5 Wnd *yivere* ‘small hoe’ [Voc].

//Cush Burji *bóyr-a* ‘two-handed hoe’, Konso *payr-aa* ‘two-tipped digging stick’; Gidole *pawr-* ‘a two-bladed digging stick’, Dob *payr-e* ‘two-pronged hoe’ [SsB].

For E 5 Bid *beret* ‘sarcler, biner’ (see above) cf. ***bVr- ‘weeding; to weed’**: C 6 Buwal *barayy* ‘second weeding’; 7 Mofu *báray* ‘2nd weeding’; 10 Azum *bara-t-na* ‘weeding of fields, garden’; E 2 Lele *bír* ‘sarcler, décherber’, *bíré* ‘sarclage’.

Note C ***bVr- ‘to weed’** (denom. < ***bar-** ‘weeding’): 6 Daba *bèr* ‘sarcler; tracer une ligne’; C 8 Kus *birgo* ‘enlever les mauvaises herbes; sarcler’ [AIK].

//Cf. Om Wolt *bu'l-* ‘to weed’ “From an Old Cush stem *??abu?r-* ‘to cultivate’ [LmW: 313].

For Geez *ba'ara* ‘to dig’³⁶ cf.:

WCh ***bur- < *bHur- < *buHur- ‘to dig, to bury’**: 3 Kupto *bìuréy* ‘to dig, hollow out’; 7 **bur-* ‘to bury, to dig: Bok *bor* ‘graben, Feld bestellen, to dig’, Fyer *bur* ‘begraben, eingraben, to bury, dig in’, DB *buur*, Sha *bur* ‘begraben’ [JgR], Bok *bor*, Mangar *bo* ‘to dig’ [RC].

Derived nouns: 1. W 7 Sha *?abúr* ‘Grab’ [JgR], Mundat *àbùrèj*, DB *burán*, Monguna *bûr* ‘funeral’ [RC].

2. W 3 Bol *booriyo* ‘gap or hole’ [GAB]; C 4 Gude *bùròhá* ‘cave’.

271. *bVr- ‘rope, tendon’: C 3 FK *bàr-tà* ‘muscle’; 4 Gude *bàrò-dá* ‘Achilles’ tendon’, *baarə* ‘to spin web (of spider)’, cf. Gude *bàryàncáñə* ‘thread’; 7 Mada *mèbbèr* ‘cordelette en fibre de palmier’, Ould *bàbàr* ‘fil à décoration’; 10 Gizey, Masa *bàràw* ‘fil’ [LexC]; E 1 Kwn *bàru* ‘thread’; 5a Mab *bure*, Bid *ber-no* ‘rope’ [HuJ], WDng *bìirò* ‘tendon d’Achille’, cf. EDng *bèrì-ngò* ‘le tendon du biceps (qui enflé quand on le frappe)’, Bid *búrà-sá* ‘muscle’; 5b Jegu *búrré* ‘rope’.

[HSED №193].

³⁶ Cf. AA **b̥r* ‘to dig’ (Geez, ron **bur* ‘(be)graben’) [TN №129].

272. *bVr- ‘bad spirit’: W 3 Tng *bura* ‘name of bad spirit’; E 4 Ubi *beere* ‘mauvais’; 6 Mok *bîrré* ‘se promener (pour les mauvais esprits) la nuit pour manger les âmes des gens’.

Cf. W 2 Mghw *Kibíri* personal n. ‘Mwaghavul spirit; spirit causing a sickness affecting teeth, tongue, gums’ [BLM].

Derivd nouns : W 7 Sha, Bok *"burú*, DB *"búru* ‘Medizinmann’ [JgR]; C 9 Mbara *"bré* ‘sorcerer’.

//Sem Akk *bārūtu* (from OB on) ‘act of divination’, *bārū* (from OB on) ‘a diviner’, *barīrītu* (MB, SB) (a female demon) [CAD b: 131, 121, 111]. Cf. Geez *bāryā* ‘slave, one who is in the service of a demon, epilepsy’, Tna, Amh, Gur *barya* ‘slave’ (orig. the name of a population). Accord. to the popular belief, the *barya* is a spirit that brings an epilepsy’ [LsG: 108].

273. *bVr- ‘side, bank’: W 3 Bure *búrà* ‘bank, edge of river’ [GAB], Krkr *bàrà-kuu* (pl.) ‘ribs, side’ [GK]; C 3 Bana *b(ò)là* ‘côté’; 6 Mina *bár* ‘side’ [FrJ], Mbedam *bëra* ‘côté, flank’ [NdM]; 8 Makari *bala* ‘side of smth’ [AlM].

Cf. W 5 Zaar *bilâ:r* ‘river-bank’ [CrZ].

Deriv. (with a body-part’ suff.) **bal-m-* < **bar-m-* ‘cheek’: 7 Gis *balam* ‘Schläfe, Wange’ [LkG], Mofu *bàlám*, Gis *balam* ‘cheek’ [JgIb].

//SCush rift **bara* ‘side, direction’: Irq, Gor, Alg, Bur *bara* [Kies], ECush Som *barbar* ‘side, edge’ [LIS], Sem Arab *barr-* ‘rivage’ (also ‘terre, pays’, etc., see above) [BK I: 103].

274. *bVr- ‘pigeon, dove’: W 1 Hs *bàruu* ‘pigeons’; 3 Krf *mbìrù* ‘dove’; 4 Wrj *baru-na* ‘pigeon’ [BlS]; 6 Ngz *bàrí* ‘domestic pigeon’; C 10 Gizey *bèrbér*, Masa, Ham *bérbér*, Musey *bèbée*, Lew *?abèrbér*, Marba *?abèrbér* ‘Treron walia’ (pigeon) [LexC]. Cf. W 3 Glm *mbûrgu* ‘dove’ [SchB]: C 10 Azum *ber-ge-ida* ‘sp. of dove’.

//Eth Sem Tna *bareto*, *baräto* ‘turtledove’, Amh *baret* ‘pigeon, dove’ (apud [SED II №61]).

Note two more fragmentary isoglosses for: ‘kind of small bird’:

a. ***baHar-** ‘quail, partridge’: W 1 Hs *bárwáa* ‘the common quail’; E 5 Mig *bàaré*, WDng *báàrè* ‘perdrix’.

b. ***bi/ur-** ‘quail’: Hs *bùràaburàa* ‘quail’; E 5 Bid *bìrbìrnyí* ‘caille’ //ECush Burju *bur-o* ‘partridge’ [SsB], Berb Sen, Rif *abarran* ‘perdrix’

mâle’ [NZ: 114]. [HSED №293].

275. *(bV)-bVr- ‘wind, storm’: 3 Krf *bùrá* ‘harmattan’ [St]; C 9 Mbara *bàràwáy* ‘tornado’, Msg *bebeer* ‘Wind’, *berbéer* ‘Sturm, Wind’ [LkM]; 10 Gizey *bàr* ‘vent’, Gizey, Ham, Masa *bíri* ‘orage, tornado’, Lew, Marba *bàbàr* ‘tornado’ [LexC], Azum *babarâ* ‘storm with wind’, cf. Musey *mbir-vinda* ‘tourbillon’ (*vinda* ‘vomir’) [ShyM]; E 1 Kwn *ká-bár* ‘wind’ [Jg]; 7 Kaj *bùrúurù* ‘tourbillon’. Cf. C 7 Mofu *bər-zawal* ‘tornade sèche’ and Balda *vúvúrū* (<*buvuru* <*buburu*) ‘wind’ [Bry]. Note C *bVr- ‘dry wind’: 6 Daba *bùr-tótóy* (cf. *tóy* *tóy* ‘dur, fort’) ‘vent fort avant la saison de pluie’; 9 Mnj *baray* ‘orage, tornade sèche’. Secondary emphatization.

a. *(‘a-/m-)bVr- ‘to blow (wind)’ (denom. verb?): C 2 Chb *mbər* ‘blasen’ [HfC]; 10 Musey *bura* ‘souffler’ [LexC]; E 1 Mobu *boore*, Ngam *bré* ‘souffler’; 5 Bid *àbar*, EDng *àbire* ‘souffler (vent)’. //Sem Arab *bārih-* ‘hot wind’ [BK I: 107]. HECush **bobore* ‘wind’: Kamb *bobora* [Hds]. Cf. [IgIb *b-r*, TN №216].

276. *bVVr-/*bVr- (< *bVHVR-) ‘fighting, rebellion’: W 1 Hs *bòoree* ‘perversity, disobedience, rebelling against authority’; 2 Mghv *bèer* [BIM], Mush *bèer* ‘war, fight’ [JgO]; 3 Pero *búrè* ‘fighting’; 6 Bade *bòorai* ‘rebellion’ (< Hs); 7 DB, Monguna *búr*, Bok *bur*, Sha *bur*, Mundat, Kulere *bûr*, Karfa *bûr* ‘war’ [RC]; C 10 Peve *bar* ‘rebel’ [Vn]. Cf. C *vVr- < (*HVbVr-?) ‘fight’: 7a Skn *vur* ‘fight, war’; 7 Mofu *vəram* ‘guerre, combat’, Mbuko *véram* ‘guerre’.

Denom. verb: E 6 Mok *òbbirá* ‘combattre (pendant une guerre)’, *òbbirè-k-árkà* ‘faire la guerre’.

//Sem Akk *bâru* (from OB on) ‘stir up a revolt’ (CAD b: 130). Note also SCush Dah *"bóori* ‘fight, war’ [TD]. For an alternative etymology of Ch see [TN №198].

277. WCh *-bVr- ‘horse’: ngas gr. Mush *bíriŋ*, Ngas *béráŋ*, Mghv *béríŋ* (note also *mbəra-m* ‘horse harness’), Mpñ *brəŋ* ‘horse’; ron gr. Bok *"bíri*, Fyer *búri* ‘horse’; E 3 Smr *bráaberaa* ‘Nilpferd’ [Luk].

b. CCh *m-/-bVr- ‘strength’: 3 Bana *bər-čí* ‘force’; 5 Hdi *mbəra-ku*, Lamang *mbərú-kú*, 6 Buwal *barəbar*.

//Sem Ug *ibr* of a stocky male animal ‘bull, horse’, Hbr *?abbīr* ‘bull, stallion’, *?ābbīr* ‘strong powerful’ [DUL: 11f, Kg: 8f]. Kogan

suggested that this animal name may represent a substantivized adjective **ab(b)īr* ‘strong, mighty’, while the latter is derived from the verbal root **?br* ‘to be strong, vigorous’.

278. ECh *bur- ‘boat’: 2 Kaba *ko-brə* [Cp], Gbr *ko-boro* ‘Boot’ [Luk], Lele *kò-brō* ‘pirogue’; 3 Smr *bruua* ‘Boot’ [Luk], Ndam *buro* ‘boat’.

//Eg *br (bjr)* (N) ‘Art Seeschiff (zu Reisen, zum Transport von Lasten)’ [EG I: 465]. The following Sem data (isolated and *hapax*) seem to be a Eg loan: Ug *br* ‘sorte de navire’, Hbr **bar* (*b'rēhem*) ‘cargo’ [DRS: 63]; Ug *br* ‘type of barge’ [DUL: 233]. One more Eg word may be cognate with ECh **bur-*, namely: Eg *b̥w* [if = brw] (Lit.MR) ‘Art Schiff zu Lustfahrten und Reisen’ [EG I: 418]. Cf. [HSED №336].

279. *bVr-m- > H-/k-bVr-m- ‘knee’: W ‘knee’; 2 Mpn *furūm*, Mghv *kə-furūm*, *furūm* [JgS], Ngas *ferem* [Hff], Mnt *fim*, *pə-fim*, Grk *furūm* [JgC], Mush *bórumo* [JgO], Goem *fárám* [Hlw]; 3 Gera *bùrmì*, Glm *bù-bûr*, Grm *burmù* [SchB], Bol *burum* [Jglb], *bo-burum* [Meek], Krkr *béerásin* [GK], *beera-sim* ‘knee’ (‘knee’ + ‘leg’) [Meek], Ngm *bùurù*, Dera *bárəm* [SchV], *bò-bárəm* [Jglb], Tng *purum*, Pero *púrūm*, Kupto *fúrūm*, Maka *burum* ‘knee’ [NmM], Bure *bórumo* ‘knee, elbow’; 4 *y-*burum-*: Warji *ywùrmù-ná*, Kariya (*y*)*wurum*, Miya *wúrùm*, Paa *bùrmi*, Tsagu *bóm-bárən* (-n# < *-m#), Siri *yérma*, Mburku *wírin*, Jmb *vurmú* (compensatory prefixation) [SkNB]; 5 Tala *kàa fúrùy*, Geji *gú hulan*, Kir *kaa furum* [Smz], Guus *vúrún* [CrG], Grnt *vàran*, Jimi *húrum*, Tala *kaa-furin*, Bogh *fim*, Mng *kam-hurum*, Saya *gay-varən* [Cs]; C 6 Buwal *b̥ra* ‘hip’ (cf. Sem Akk).

Denom. verb in ?a-: **?abVr- > bVr- ‘to kneel’:** C 10 Dzpw *búrú*, Diri *búrū* ‘marcher sur les genoux’; E 6 Mok *?òbbirá* ‘s’agenouiller au bord d’un ruisseau pour boire’ (cf. Sem Soq *berk* ‘genou’ > ?ébrek ‘faire agenouiller’ [LsS: 96]).

//Sem **bi/ark-* ‘knee’: Akk *birku* (*burku*) ‘knee; lap’ from OB on [CAD b: 255], Ug *brk*, Hbr *bäräk*, Aram (Jud) *birkā*, Arab *bārik-at-*, Geez *bərk*, Soq *berk*, etc. ‘knee’ [Fron*birk- 2.92, SED I №39]. Cf. Om Kafa *borboroo* ‘Schienbein’ [RK], Ari *bar* ‘thigh’ [BnO: 352].

For the same reflex of Ch **b-* (**k-bVC-* > *k-fVC-* > *fVC-*) see CED №1 ***?abVn-/*ku-?abVn- > fun- ‘grinding quern’**. For -*m-* as a possess. suff. in Ch forms for body-parts see [Luk], **lVs-m-* ‘tongue’ [CED №568].

It cannot be excluded, that C₃ in AA **bVr-k-* was attributed as a body-part' affix (attested, e.g., in **baw/y-k-* 'mouth', see №5 above) and replaced on the PCh level by the possessive marker: AA **bVr-k-* > Ch **bVr-m-*.

280. *(m)*bar*- 'person': W 'person': 3 Gera *bár-mì* m., *báar-nàaná* pl., Glm *mbær* pl. [SchB]; 4 Paa *mbárin*, Mburku *bar-gi* (< *bar-ki*) (cf. *mbur-gu* 'ram'); 5 Jimi *mbur*, Zul *mbarime*, Plc *mbáam*, Tala *baa*, *mbar* [Cs], Geji *mbalín* (< **mbarVn*) [JgIb] cf. Mng *bæbæør* 'man, male' [Cs]; C 7 Mada *mbre* 'personne', Gis *mburo*, pl. *mužay* 'Mensch'; E 1 Kera *bär* 'father'; 2 Drm *bara*, Gbr *barua* 'Mann' [Luk]; 3 Ndam *bär* 'person' [JgIb].

Cf. W 3 Ngm *bòr* 'unmarried man' [NEH]; E 5a EDng *biùuriyē* 'rester invendu, non marié'.

a. ****m-bVr*- 'people':** W 3 Glm *mbér* pl. of *mii* 'person' [SchB]; C 3 FK *mbári* 'people, person' pl. of *ndá* 'person'; E 3 Smr *burre* 'people' [Bn].

//Cf. ECush Som *barbaar* (pl.) 'young man' [LlS], Om Yemsa *bar* 'he' Personal pronoun 3 sg. m. [LmY]. [HSED № 214].

281.mb(w)ar*- 'lion':** W 2 Ngas *bwaar* [Fl], *mbwàar* [JgN], Mghv *mbóór*, Mpn *mvér* (irreg. reflex) 'lion'; 7 Fyer *?mbwaar* [JgIb]; 5 Geji *mbwol* [JgIb], Plc *bwár*, Zul *mbori* [Cs №265]; C 4 Nzn *mbárō-ga* [JgIb]; 6 Mina *mábár* [FrJ]; 7 Chuv *màbár*, Mofu *mòbár*, Gis *mobor* 'lion' [JgIb], Mbuko *bérbór* 'animal (lion?)', 7a Gdr *bôlu* [JgIb], E 5a WDng *biùri*; 5b Tor *borom*, Brg *bóròm*, Kaj *bürmà* 'lion'. [JgIb: 112, AA 1 №140: Ch Ngas, Mghv, Dng + Berb Ghad *aþur*, Ghat *ahər*, Ahag *a-har*, Zng *war*, Nef *waar*, HSED №246 'lion, hyena'].

282. *(m)*bur*- 'oil, butter': 7 Bok, DB *"baar* 'oil', Koll. [JgR]; C 7 Mafa *mbár* 'huile'; 8 Log *bráaree* 'frische Butter' [LkL]; 10 Dzpw *mbür* 'graisse, huile, miel', Dari *mbúr* 'oil, fat', Peve, Ngide *mbür*, Hedè, Zime *mbur* 'oil' [Shy], Azum *mbula* 'fat, oil, grease', Gizey, Masa *mùl*, Ham, Lew, Marba, Musey *mbùl* 'graisse, huile' [LexC]. (masa -l# < Ch *-r is irregular. A root-varint?). [JgIb *mbur*].

Denom. verb in *?a-* 'to oil': W 5 Zaar *bor* 'add (oil to a dish)' [CrZ]. //PHEC **buuro* 'butter': Had, Gede'o *buuro*, Kamb *buuru*, Sid *buuró*,

**buur-* ‘anoint, smear’, cf. **buur-d-* ‘annoit os’ [Hds], dull Goll *piir-* ‘buttern’ [AMS]. Cf. Eg *ybɔ:t* [if ybr] 18 ‘Art Salbe oder Öl’ [EG I: 62].

283. *(m)bVr- ‘plain, place, land’: W 3 Maka *bóró* ‘fallow, unfarmed land’ [SvP]; 4 Paa *mbùrá*, Siri *bəri* ‘place’ [SkNB]; 5 Buli *ábər* ‘place’, Jimi *baaro* [Cs №426]; C 7 Muy *mbərnā* ‘unfertile area’, Mbuko *barbarawan* ‘la plaine’; 7a Skn *mburum* ‘land, place’; 10 Masa *bàrà*, Gizey *lìy bùrù* ‘terre noir’, Gizey *bààri* ‘terre lessivée’ [LexC]; E 6 Mok *bérè* ‘plaine au pied de la montagne’.

Note C 6 Daba *vàrà* ‘la plaine’; 7 Mafa *vara* ‘terrain plat’ (< *-*bara*). //Sem Akk *bāru* (a syn for open country). L(oan) W(ord) from Sum *bar* [CAD b: 120], Akk *barr-* ‘terrain non construit’, Aram JP, Syr *barrā* ‘campagne, champ ouvert’, Sab *br* ‘terre, région, plaine’, *brr* ‘zône de pâturage’ [DRS: 87], Sab *brr* ‘open country, plain’ [SD: 31], Hbr *bar-* ‘freies Feld; open field’ [KB: 146], OffAram *br* ‘what is outside’ [HJ: 195], Arab *barr-* (*brr*) ‘terre ferme, continent; pays, champs, ravage; campagne (opp. à jardine), dehors’, *bariyy-at-* (*brr*) ‘champ, plaine’ [BK I: 103f], Mehri *bur* ‘country’ [JnM], Cush Bilin *bira* ‘land’ [RB], *bəra* ‘ground’ [ApAg: 59], Beja *beréer* ‘Steppe, Wüste’ (< Arab *brr-*) [RBd], Saho *baarho* ‘earth, ground, country’ [Vr], Som *bírrí* ‘land (as opposed to sea)’ [LIS], Arb *boore* ‘earth’ [Hay]. For cognates of Eg *bɔ:t* ‘Steppe’ see [EDE II: 32].

Note C 10 Musey *bubura* ‘large, vaste’, *buru* ‘outside’ [ShyM] and Berb MC *abaraw* ‘large, vaste’ [NZ: 121].

Cf. [HSED №337].

284. *bHr/*Hbr- > *bVbVr- ‘bed-bug’: W 5 cf. Guus *bul*, Dott *bólí* ‘bed-bug’ (irreg. -l-) [CrG, CrZ]; C 6 Daba *bàràrām* ‘punaise’; 7 Gis *babaram* ‘Wanze’, Mofu *bábáram* ‘punaise’; 9 Mbara *bòbór* ‘bed-bug’; 10 cf. Masa *bari-na* ‘perce-oreille, tick’; E 2 Lele *bòrbór* ‘punaise’; 4 Sok *bóboroo* ‘Wanze’ [Luk].

285. *burgVč- ‘louse’: C 5 Pod *birägešəwe* ‘pou de chien’, Glv *bíragšúwa* ‘tick’; 6 Daba *mbùrgūč* ‘le pou’; E 5a Bid *bugùlcú-mò* (metath., -lč- < *-rč-) ‘larve’. Cf. C 8 Log *mburgumisi* ‘punaise’ [All], Afd *bligmy*, Log *bórgomī* ‘Kamellaus’, cf. Musuk *biggerui* [Sol: 229]; E 4 Saba *bər* ‘(head) louse’.

//Sem Arab *burgút-* ‘puce, flea’ [BK I: 113], Akk *perša'u* (Oakk on)

‘Floh’ [AHw: 855], Hbr *parōš* ‘flea’ [KB: 780]. Cf. Sem **pVrgVt* [SED II №185], **parḡut* [Fron 5.88], **pVrgVt* [Kg: 212]. Berb Shilh *aburegs* ‘sauterelle’ [NZ: 107], Rif *buryes*, Izn *burehs* ‘grillon’, Snus *aburyes* ‘insect’, Sghr *burhs* ‘small grasshopper’ (apud [SED]).

On Semitic **p* see [SED I: 246]. Cf. [HSED №345].

Note a possible root variant with a lateral fricative: Central Ch 7 Ould té-^m*bérékétew* ‘criquet migrateur’ ~ Sem Arab *barḡaš-(at)-* ‘mouche-ron’ [BK I: 113]. Both < AA **bVrgVc-*.

286. *bVr- ‘white’: W 5 Dott *bəri*, Wangdai *bəri* white’ [Smz]; C 6 Daba *bərən* ‘blanc’; 7 Gis *babar-an* ‘white, clear’, Mofu *má-bará* ‘white’; 8 Gulfei *ber-de* [Luk]; 9a Gdr *bàbàr* [FrG]; E 1 Kwn *bərē-tín* [JgIb]; 2 Kaba *burwa*, Nch *bara* [HmK], Gbr *bére*, Drm *bere* [Luk], Lele *bōr*; 3 Smr *buró-ge* ‘white’ [Luk].

Denom. in *?a-: ?abVr- > ?abVr- > bVr-:* W 5 Dott *bəri* ‘to be, become white’ [CrD]; C 9 Mnj *birhi* ‘blanchir’, Mlw *birhi* ‘devenir blanc (de poussière), blanchir’.

//Sem Geez *brr* ‘purify, make white’, Hbr *bārer* ‘purify’ [LsG: 106] Arab *bariha* ‘be white’ [LsG: 104], *brh* ‘avoir de carnation blanche’ [BK I: 118f], Ug *brr* ‘to be or remain pure, clean, free’, Aram Palm, Jud Aram *brr* ‘to make clear’ [DUL: 237]. For Ch and Eg *bʒh* ‘le blanc de l’oeil’ (if = **brh* ‘white’) see [EDE II: 81f].

287. *(?a)bar-/bVwVr- ‘big, large’³⁷: W cf. 1 Hs *ábàarà* ‘an epithet applied to anything which is both large and heavy’; 4 Mburku *babar-an* ‘long, tall, big’ [SkNB]; 5 Dott *bari* ‘big’ [Cr], Zaar *vàri* ‘big’ [CrZ], Buli *bár*, dass sub-group **bári* ‘big’ [Smz]; C 5a Lmn *bər-ȝà* ‘(to be) big’ [Wff]; 6 Mina *bì-mbrìv* ‘large’ [FrJ]; E 4 Mawa *bwar* ‘large’, *bwar-* ‘élargir’, Ubi *boor-gà* ‘large’.

Redupl.: C 7 Zlg *bárbär* ‘être lourd à porter’, Chuv *bèlbèl* ‘lourd’.

Denom. verb: E 5a Bid *buràm* ‘agrandir, élargir’, EDng *bèrlē* ‘devenir large’ > *bérél* ‘large, gros, épais, volumineux, enflé’.

Cf. W 3 Dera *bá-mbáràm* ‘largeness, importance’ [NmK].

//Berb Qab *abarar* ‘énorme, très grand/en grand quantité (taille ou volume)’, MC *abaraw* ‘large; vaste; épais; gros’ [NZ 93,121], Shilh *berari* ‘être épais’ [NZ: 124], ECush Som *buur-an* ‘stout’, Rend *buur* ‘big (of things)’ [Sam].

³⁷ For Eg *bʒ.w* ‘Ruhm, Macht, Gewalt’ as a cognate see [EDE II: 9].

For Arab *nbr* ‘grandir’ cf. CCh **vir-* (< *nbr* ?) ‘to increase’: 2 Bura *vira* ‘to increase’; 9 Mlw *virdī*, Mnj *virdī* ‘augmenter’.

The following root may be cognate (terms for ‘big’ & ‘swollen’ are often confused, see eg, E 5a EDng *bérél* ‘large, gros, épais enflé’ and Berber *abaráw* ‘large; vaste; épais; gros’).

a. ****bVwVr-* ‘(to be) full, to swell’:** W 2 Mghv *bwer* ‘full’ [JgIb]; C 4 Gude *mbaarə* ‘to swell from pregnancy (stomach only)’; C 10 Musey *bura* ‘pourrir, enfler’ [ShyM]; E 5a EDng *búuríyé* ‘fructifier, gonfler, enfler’.

Deriv. in *m-/?a-* ‘filled, swollen’: W 2 Mghv *bwer* ‘to be full, fill to the brim’ = ‘filled’ [BlM]; C 7a Skn *mbur* ‘swollen’; 7 Mafa *bor-borora?* ‘épais, gonflé’.

//ECush Som *barar*, Boni *bar?ēr* ‘to swell’ [SAM].

288. **bir-* ‘wet’: W 2 Mghv *mbira-k* ‘wet, not fully dry’ [BlM]; E 2 Gbr *bírra*, Drm *bra* ‘nass’ [Luk].

Denom. in *?a-: ’abarak > bara-k ‘to become wet’:* W 2 Goem *bàrá-k* ‘become wet, fresh’, Mush *bara-k* ‘to be wet’.

//Berb Qab *bberber* ‘être mouillé abondemment’ [NZ: 90], cf. Eg *bȝy* [if bry] ‘feucht sein’ Med [EG I: 417], for alternative cognates see [EDE II: 44-48], [TN №185].

For a root variant cf. ****fVr-* ‘(to) wet’:** W 2 Ngas *fir* ‘to wash hands’ (apud [TAS: 108]), Mghw *fəriš* ‘auswaschen (durch Wasser)’ [JgS]; C 9 Msg *áfri* ‘feucht, nass; wet’ [LkM].

289. **bVr-* ‘heat’: W 2 Mpn *biar* ‘heat’ [Fp]; C 2 Bura *borbor* ‘hot’ [BlB].

Derived verb: W 1 Kera *bóoré* ‘to warm o.s., to find fire’; cf. C 4 Gude *bəraŋə* ‘to warm smth (oneself)’.

//Cush agaw Bilin, Hamir, Aungi *bər-* ‘hot, warm’ [ApAg].

*F

290. *fV²/w/y- ‘to blow³⁸, dry’: W 2 Ngas *fii* ‘to blow’ [Fl], *fii* ‘to blow, winnow, dry’ [JgN], Goem *fi* ‘to blow or fan smth (in order to dry it)’ [Hlw], Mpn *fii*, Chip *fi* ‘to blow’ [Kr], Mush *fii* ‘to be dry, blow’ [JgO], Mghv *fii*, pl. *fyaat* ‘to blow, dry’ [BLM]; 3 Bol *fo²-* ‘trocken werden’ [LkB], *pò²u* ‘to dry up’ [GAB]; 4 Wrj, Mburku, Miya, Kariya *fay-* ‘to blow’ [SkNB]; 5 Dott *fifee* ‘to whistle’ [CrD]; 6 Duw *fiyo* ‘to start fire, blow fire’, Ngz *fiyú* to ‘blow’, *fiifyu* ‘to whistle’; C 2 Bura *fi* [BLB]; 4 Gudu *ufi* [JgIb]; 5a Gdf *fɔ-* ‘to blow’ [KimG]; 6 Daba *?uf* (metath.) ‘to blow’; 7 Mofu *-f-* ‘souffler, siffler’, Mol *fowwa* idf. ‘sound of wind blowing’ [FsM]; 8 Bud *fa*, *phe*, *fwo* [LkBd], *fá* [Awg] ‘to blow’, Log *fa* ‘to blow’ [JgIb]; 10 Dzpw *fó²ó*, Dari *fō²* ‘souffler’, Peve, Hede *fo²*, Zime *fo²o* ‘to blow’ [Shy], Ham, Musey, Lew, Marba *fó*, Masa *fóó* ‘souffler’ [LexC] (cf. 10 Musey *fora* [fo-ra] ‘souffler’ [ShyM]); E 2 Nch *-pa* [HmK]; 3 Tum *po* ‘to blow’. Cf. C 5 Wnd *uk-feya* ‘wind’ [Voc].

//Cf. Eg *nfy* ‘ausatmen, hauchen’, *nf* MR ‘Atem; Wind’ [EG II: 250], PECush **?uf(u)f-* blow’ [SsB: 183], agaw **əf y-* ‘blow’, Beja *fuuf-* [ApAg]. Berb Shilch *uff* ‘être gonflé, enflé; souffler’, Zng *yu²f* ‘gonfler’, *af* ‘souffler’, Rif, Qab *uff* ‘enfler, gonfler’, etc. [NZ: 506f]. For Berb ‘to swell’ cf. C 2 Mrg *fifi* ‘swollen’ [HfM: 23]; 3 Hya *fyiye* [BLH] ‘to swell’; W 3 Kupto *?ofiyà* ‘swelling (of the body)’.

a. Derived noun **fufu* ‘lungs’: W 1 Hs *fiuufuu*, *hiuuuhuu* > 2 Mpn *fiuufiu* 3 Bol *pìupu*; C 1 Tera *fufúf* [NmT], Gaa *pipif-á* [MN] ‘lungs’.

//Cf. Eg *wf²* (Totb) ‘die Lunge’ [EG I: 306].

Note Eg *f²* ‘to blow’ (apud [GrL: 300]). Accord. to [EDE II: 553f], ‘Meaning and origin [of Eg *f²*] obscure. Perhaps ‘to have (bad) odor’?’ [Nm **fi*, ISv: 21, AA 1 №70, HSED №797]. Cf. CCh **v* (“the change **v* > *f* is regular in n Proto-Margi and Proto-Kotoko Island”) [GrR].

b. ***fVH- ‘to blow, to winnow’:** W 7 Bok *fu?*, DB *fū?* ‘blasen’, Sha *fyah* ‘blasen (Flöte, Horn)’ [JgR]; C 5 Hdi *vihay* (regr. spirantization) ‘to winnow, whistle’; 7 Mada *fāáh* ‘légèrement (bruissement du vent)’.

//Sem Arab *nfh* (a) ‘souffler (d’un vent froid)’ [BK II: 1305].

³⁸ On ‘onomatopoetic/ideophonic’ origin of roots for ‘blowing’ in *f*-initial see [JgIB I: 15]. Note, on the other hand, that verbs for ‘blowing’ differ in their semantic components – ‘to blow, to dry’/‘to blow, to winnow’, etc.

291. C *fV(y)- ‘to place, put’: 2 Kl^b *fiyà* ‘to put down’ [MuK]; 3 Bana *f  * ‘poser’, FK *f  *, *f  y  * ‘to put’; 5 Glv *f  * ‘to do, set, put, to lay’, Mlg *f  * ‘bauen, stellen, legen’, Pod *fa* ‘to place, put’; 7 Mada *  fe*, Imp. *fe*, *fe-ma* ‘mettre, poser’, Muy *  f  y  * ‘to put’ (single obj.), Ould *-f  w  * ‘poser qqch et partir’, Mafa *fa* ‘mettre (pl. objets)’; 7a Skn *f  * ‘to put down’.

a. **W *fVw-** (pl. in -w-) ‘**to throw, sow**’: W 2 Mghv *fwo* ‘to throw’ pl. [BIM], Mpⁿ *foo* pl. ‘to sow, broadcast, throw many things’, Ngas *fwo* ‘to throw down, away’ [JgN], Goem *f  * ‘to scatter or sow smth.’ [Hlw]; 3 Bele *f  y  -k  * ‘to throw’ [SchB].

For a derived noun cf. W 1 Hs *f  y  au* ‘a game of disc-throwing’.

292. *fa?-/*fi?- ‘to scrape (off), rub’: W 2 Mghv *fee* ‘to clean, drag’, *fee-fee* ‘to sweep the farm’ [BIM], Mpⁿ *f  o* adj. ‘clear of vegetation’; 3 Kupto *fiy  * ‘to bark off, decorticate’; 7 Sha *f  f  * ‘jucken’ [JgR]; C 2 Bura *fova* (<*fofa*) ‘to rub, wipe off (dust or damp)’ [BLB]; 3 FK *f  ?* ‘to rub’; 7a Skn *fow* ‘itching’; 8 Kus *fe ho* ‘to peel (+ms’al) ‘pluck (chicken)’ [AlK]; 9 Mlw *fi*, Mnj *fi* ‘racler, polir’; 10 Dari *f  ?* ‘to scrape to make lisse’, Dzpw *v      * ‘gratter pour lisser’, Masa *f  o* ‘  ter (vêtement)’ [CC]. Cf. W 2 Mghv *fee* ‘ziehen, eggen’ [JgS], C 7 Gis *fe* ‘Boden bearbeiten, hacken’ (‘to scrape a field’?).

Derived noun: W 2 Ngas *fwoop, foop* (pl. in -p) ‘the shell of an egg, snails, etc, but not the bark of trees’ [Fl], *f  p* ‘husk, hull’ [JgN], *f  p* ‘bark’ [Kr]; C 8 Bud *f  u* ‘Haut’ [LkBd]; E 1 Kera *f  y  * ‘Lepra’.

//HECush **fiy-* ‘to sweep’: Sid *fea*, Gede’o *fe*, Had *f  i?-* [Hds], Saho *fiye* ‘to sweep’ [Vr], Arab *fayya* ‘to clean’ [Hay].

Cf. [TN №480].

293. *fVw/y- ‘to tell, call’: W 5 Zaar *fuu* ‘to tell’; 7 Sha *f  * ‘sagen’ [JgR]; C 5a Hdi *fay* ‘to sing’; 8 Bud *f  * ‘appeler’ [Awg], Makari *fe* ‘to call’ [AlM].

//Sem Arab *fwh* (*u*) ‘prononcer (un mot, discours); parler’ [BK II: 649].

294. *fV(y)-/*HVf- (< *fVH-) ‘to go up, rise’: W 7 Sha *w  f  y*, Karfa *h  f* (metath.) ‘to mount’ [RC]; C 9 Mulwi *fi* ‘emporter dans les airs (oiseau de proie)’, cf. Musgu *afa, efe* ‘up (?)’ [LkM]; E 1 Kera *f  * ‘sich erheben, se lever’.

Derived noun: C 5 Mlg *f  y  a* ‘Himmel, sky’, cf. W 6 Duw *  af  *,

WBade *afā* ‘sun’.

//Sem Arab *yf^v* ‘to mount’ [BK II: 1631], Sab *yf^v* ‘go up, rise’ [SD: 168, Bl: 233], SOmot Dime *fuh-* ‘to climb’ [BnA].

Cf. TN №388 **p^v* ~ **ff^v* ‘to rise, swell’.

295. C **fVy*?- ‘to decrease’: 7 Mofu *-fáfiy-* ‘diminuer’; 9 Mnj *fiyi*, Mlw *fiyí* ‘diminuer’; 10 Dzpw *fái* ‘diminuer’, *fé’é* ‘(se) rétrécir’. Cf. 9a Gdr *mù-fiyá* ‘small’ [FrG]; 10 Dari *fay* ‘small, piece’. //Sem Arab *fhh* ‘etre faible, débile’ [BK II: 640f]. Note W 3 Kupto *fúhé* ‘stupid’ as an Arabism.

296. *(*V*)*fVy/w-/*fV?Vw-/y > vVw, fyf* (compensatory redupl.) ‘to roast’: W 3 Tng *pipe* ‘to roast’, Bol *pèeyu* ‘to roast directly on fire’, *pau* idf. ‘indicates hotness’ [GAB]; 7 Kul *fyef* ‘rösten’ [JgR]; W 5 Guus *vaa* ‘to burn, grill’, *vay* ‘hot’ [CrG], Zaar *vaa* ‘to heat up, burn; be hot’ [CrZ], Grnt *vuu*, Tala *huu* ‘to roast’ [Cs]; C 1 Hona *fye-*, Tera *vi* [NmT], Gabin, Gaa *fi?*- ‘to roast’ [Kr]; 8 Kus *viov* ‘to bake in ashes, roast’ [ALK], Bud *few* ‘griller, brûler’ [Awg]; 9 Mbara *fèè* (or *féé*) ‘to grill’; E 2 Kaba *puwə* ‘to roast’ [Jglb]. Compensatory redupl. (in Tng & Fyer) and *v-* in W 5 and in Kusery point to a laryngeal.

//Sem **py/w* : Akk *epū*, (*apū*) (OB on) ‘to bake’ [CAD e: 247], Phn *py* ‘to cook, to bake’ [HJ: 94], Aram (Emp) *py*, (Syr) *?epā* (Mand) *apa* ‘cuire’, Ug *py*, Hbr *?āpā* (*py*) ‘to bake’, Geez *?afaya* ‘to bake’, Sab *?fy* ‘baked’ (= ‘sort of foodstuff’) in [SD: 3]) [DRS: 28, DUL I: 89, Bl: 25, LsG:10].

297. *(*V*)*fVw-/*fV?Vw- > vVw, fwf* (compensatory redupl.) ‘to smell, (bad) smell’: W 2 **fwVp*: Ngas *fweep* ‘to smell, sniff; a smell, a stink, also a pleasant smell’ [Fl], *fwèep* ‘smell, stink’ [JgN], Mghv *fwàap*, *fwàyàp* (internal k- pl.) ‘odour, smell’ [BLM]; 6 Ngz *fòowâ* ‘stench’; C 8 Bud *pho* ‘verfault sein (Fleisch)’ [LkBd], Makari *fio* ‘odour, to smell’, Log *via* ‘smell’, *vi* (<*fi?*-) ‘to stink, smell bad’ [AI]. Note that *v-* in Log and compensatory redupl. in W 2 point to a laryngial (in pre- or postposition)

//Sem Arab *faw^v-at-* ‘odeur qui se répand partout’ [BK II: 646], Geez *?afaw* (pl. *?afawāt*) ‘sweet odor, scent’ [LsG: 10].

For W 2 **fwVp* < AA **bwb* see [TN №312].

298. *(wV)fⁱy- > fVy-, vVy- ‘to receive, find, obtain’: W 3 Tangale *piye* ‘to receive, accept’; C 2 Chb *fa* ‘nehmen, becommen’ [HfC]; 10 Masa *fī* ‘trouver’ [CC], Dzpw *fé* ‘obtenir, recevoir’, Marrba *fe*, Musey *fi*, Peve *fie*, Hede, Zime *fe* ‘to obtain’ [Shy], Musey, Marba, Masa *v-*, Peve *vie* (< *wfy) , Hede *fe* ‘to receive’ [Shy]. Gizey, Masa, Ham, Musey *fi*, Lew, Marba *fé* ‘recevoir, trouver’ [LexC], Musey *fi-ra* ‘recevoir, trouver, gagner’ [ShyM].

‘to pay’ see Ch *p(Vw)ay/?- ‘to pay, give’.

For reflexes in some masa languages see [TN №380 *ph].

//Sem Geez *wfy* ‘receive, grant, transmit, hand over, deliver, transfer’ [LsG: 607]. For Geez *wfy* ‘to hand over, deliver, tranfer’ < Sem *w/?py
a. *?*af*Vy- ‘to seize, catch, take’ (either, Caus in *?*a* from *fⁱy- ‘to receive’, or – an independent root): W 2 Goem *fyàp* ‘to snatch at smth’ (<*fyaf*, compensatory redupl. < *?*af*Vy. Ch *-P# > W 2 -p#) [Hlw]; C 3 Bura *fa* ‘to take’ [BIB]; 3 FK *fjō?* ‘to pick up a quantity of things’; 5-10 *vVy- (< *?*af*Vy-): 5 Glv *vay* ‘to catch’; 7 Mofu -v- ‘arracher de force, saisir’; 10 Gizey, Masa, Ham, Musey *vì*, Lew, Marba *vè* ‘saisir, accepter’ [LexC], Musey *vi-ra* ‘prendre, attraper, tenir, saisir’ [ShyM], Dzpw *vè* ‘accepter’, Dari *vīē* ‘prendre qqch présent’; Masa *vì* ‘attraper, attaindre, saisir’ [CC].

For possible derived nouns cf. C 9 Mnj *ava* ‘filet’; E 1 Kera *vèw* ‘piège’.

299. *wVfVh- > fwV/vwV ‘to boil, heat’: W 4 Kar *vuu*, Paa *vùvu* (< wuv- < wVf-), Mburku *viy-*, Tsagu *vi*, Siri *wuyu* ‘to boil’ [SkNB, MS], Wrj *víwú-nà* ‘boiling’, cf. *víwù-nà* ‘three stones for cooking, fireplace’ [BIS]; C 3 Bana *wàfà* ‘cuire la viande un peu le matin pour que ça ne pourrisse pas avant le soir quand on va la préparer bien et la manger’, FK *fivù* (<*fifu*, compensatory reduplication) ‘to boil’ [Kr]; 5 Pod *ufá* ‘to heat, boil’; 5a Hdi *fway* ‘to heat, boil’; 7a Skn *fowa* ‘to heat liquid’, *fwa* ‘to warm (of liquids)’, *mu-fwan* ‘heated, warm’.

//For a metath. see Sem Arab *fw̥h* être en ébullition, bouillonner (se dit d’une marmite)’ [BK II: 644].

300. C 8 *fa ‘to bury, sow’: Makari, Kus *fa*, Log *fa-* [Al], Bud *fa* [LkBd] ‘to bury, to sow’, Makri *fa go* ‘to cover, close’.

//SCush Qwadza *fo?*-at- ‘to bury’ [Eh: 152].

Consider the following isogloss as a possible derivative:

a. W **fV(w)VH-* ‘to close, cover’: 3 Bol *f(a)* [LkB], *paa* [GAB] ‘to close’, Krf *fe?*- [Stl], Krkr *faa* [GK], Glm *pyáa-*, Bele *fè?yú-kò*, Grm *fée-* ‘to close’ [SchB], Ngm (dial.) *fa?à*, *há* ‘to cover, close’ [NEH]; 7 Kul *fu* ‘schliessen’, Sha *vu*, DB *voh*, Bok *vo* ‘schliessen, bedecken’ [JgR], Tambas *fwa*, Karfa *fwâ:y*, Bok, Monguna *vo*, Sha *vu*, ‘to shut, close’ [RC]; C 5a Hitk *f-* ‘Schliessen’
 //Cf. Sem Arab *hfw* ‘être caché à qqn, être à la connaissance de qqn’ [BK II: 1430].

301. *HVfVy- ‘rainy season’: W 3 Kupto *fôó* ‘rainy season’ (pl. in –w-?, cf. W 7); 4 Paa *fâfiya* (compensatory redupl.) ‘rain’ [MS]; 7 Bok *fu*, Monguna *fi*, Mundat *fyôw* Mangar *fi*, Fyer *fû*, Tambas *fuu* ‘wet season’ [RC]; C 2 Mrg *viya*; 3 Hya *fâ* ‘rain’ [BlH], HG *gäfiya* [Kr], FK *viyá* ‘rainy season’; 5 Mlg *viya*, Lmn *viya* [Wff], Hitk *viyâ* ‘rainy season’; 6 Buwal *viyâ* ‘wet season’, Mina *vî* ‘rainy season’ [FrM], Daba *viyâ* ‘rainy season’; 7 Mafa *viya*, Zlg *viye*, Mada *vya* ‘saison de pluies’, Ould *lô-viyô* ‘pluvieuse’; 7a. Skn *vi* ‘rainy season’. Cf. [TN №326] **by* ~ **py* ‘rain’, CCh **viya* ‘rainy season’ [GrR].

302. W 7 *faw- ‘mouth’: Bok *fò* ‘mouth, face, front’ [BlR], Monguna, Mangar *wo*, Fyer *fo*, Tambas *fwoi*, DB *fôó* ‘mouth’, Fyer *fufwo* ‘door’ [RC].

Denom. in *?-: W 1 Hs *áfâ* ‘to throw into the mouth such things as tobacco in powder form, or a number of groundnuts’. //Sem Akk *pû* ‘mouth, command, order, advice, mind, speech, language, opening (of a part of the body), entrance’ from OAkk on [CAD p: 453], Ug *p* ‘mouth, snout; orifice, vulva’, Phn *py*, Aram *pm*, Hbr *pe(h)* ‘mouth’ [DUL II: 647], Geez *?af* (pl. *?afaw*) ‘mouth, beak, entrance, brim, orifice, border’, Arab *fû* (in construct status), Sab *f* ‘voice, mouth’, Tgr, Tna *?af*, Amh, Harari, Gur *af*, also in Cush, etc. [LsG: 8f], Sem **pay/w-* [Kg: 221]. SCush **?afô* ‘mouth’ [Eh: 281], rift **?afa*: Irl, Gor, Alg, Bur *?afa* [Kies], PEC **?af-*: Som, Saho, Afar, Rend, Boni *af*, Dasenech *?afu*, Oromo *af-aan* (pl.), Konso *af-aa* (pl.), Sid, Darasa, Alb *af-o*, Burji *afa* ‘mouth’, Had *?af-o(?)o* ‘hole’ [SsB], Beja *yaf* ‘mouth’ [RBd]. [Coh №380, Dolg: 231 Cush **?Ap* ‘mouth’].

303. *fVdV?-/*fVdd- ‘to blow (fire)’: W 3 Kupto *fiddéy* ‘to blow fire,

set/strike fire’, *fiddéy* ‘to whistle’; 7 Kul *fud* ‘blasen’, Sha *fud* ‘blasen (Feuer)’ [JgR], DB, Monguna *fū?*, Bok *fu?*, Sha *fud* ‘to blow (mouth)’ [RC]; C 8 Log *fid-un a* ‘to blow up, inflate’ [AIL]; 10 Azum *fodá* ‘to blow, breathe’.

//SCush rift **fudu?* ‘to blow’: Bur *fudu?*, Irw *fuuruu?* [Kies].

Derived noun: ***fud-** ‘wind, harmattan’: W 3 Kupto *fuddò* ‘harmattan, dust, cloud’; C 5 Gdf *fude*, Gava, Chk, Chn *fuda*, Glv *fudə* ‘wind’ [HmG]. Cf. C 9 Msg *fodú-m* (with a body-part’ suff.) ‘Bauchwind’ [LkM].

//SCush *fudu?aa* ‘wind’: Bur *fudu?umee* ‘blowing and howling of wind’, Irq, Gor *fur?a*, Alg *furu?aa* ‘wind’ [Kies].

304. *fVd(VH) > fVd- ‘to fight, to kill’: W 1 Hs *fàada* ‘to quarrel, fight’; C 9 Msg *fáda* [LkM], Mbara *fàd* ‘to kill’, Mlw *fidî* ‘tuer, faire mal’, Mnj *fidî* ‘tuer, abbatre (arbre)’.

//Cf. Sem Akk *pādū* ‘merciless, pitiless, unsparing’ MB, SB [CAD p: 7], ‘schonungslos (Waffe); ruthless, merciless (weapon)’ [AHw: 808].

305. *fHVd- (note a long vowel in Krkr) > ***fVd-** ‘to gather, roll up, pack’: W 3 Krkr *feedu* ‘to roll up’ [GK]; C 4 Gude *fədə* ‘to roll up (mat); gather together and take away’; 5 Mlg *fáda* ‘(zusammen) rollen, falten’, Pod *fada* ‘assembler, enrourer’; 7 Mofu *-fad-* ‘rouler, enrourer’, Mada *óffod* ‘enrouler, envelopper’, *offód* ‘anneau, bague’, Muy *éfèdēy* ‘to roll up’, Gis *fod* ‘zusammenrollen’, Mol *faday* ‘to fold’ [FsM]; 9 Mnj *fidî* ‘enrouler, envelopper; emballe’, Mlw *fidî* ‘enrouler’.

Deriv. C 7 Mada *óffodo-và* ‘s’enrouler’.

The following (derived) nouns support the original semantics ‘to gather’: C 8 Kus *fudu* ‘heap’ [AlK]; E 1 Kera *fáada* ‘Versamlung, réunion’.

For a root variant see . 419. C ***pad(VH) > pad-** ‘to wrap, bandage’.

306. *faHVd- > fad-/*fad- ‘to fall, put’: W 1 Hs *fàadî* ‘to fall down’, *fàadà* ‘to throw o.s. into the water’; C 7 Mol *fad* ‘to put, set down’ [FsM]; E 2 Lele *pādīwí* ‘tomber’; 5b Mubi *fíudi*, pl. *fádē* ‘(faire) tomber’ [JgM].

//ECush Ong *fad-* ‘to put down’ [SavT].

a. W 6 Ngz *vèdú* (< *HVfVd-*) ‘to lie down’.

//Eg *hfd* Totb, NR ‘sitzen, sich setzen’ [EG III: 75].

307. C *fid- ‘to shave, peel’: C 3 Bana *f(á)dí* ‘peler, enlever’; 4 Gude *faadə* ‘to peel with knife’; 5 Hdi *fiday* ‘to peel’; 6 Mina *fəd-* ‘to shave’ [FrJ]; 7 Chuv *méfədəy* ‘déchaumer (champ)’, Mbuko *fuday* ‘raser’; 9 Mbara *fíd*, Mlw *fídí* ‘raser’.

a. ***fid-** ‘to cut ears (of corn), harvest’: C 7 Mafa *fid-* + *daw* ‘mil’ ‘couper un épi pour le mettre à sécher’; E 1 Kera *fédé* ‘Hirse ernten’. For a possible derived noun cf. C 7a Skn *vid* ‘sickle’ [ThS: 23]. Cf. C 7 Mofu *-fáfád-* ‘inciser, couper la peau pour arracher (une épine)’. //Sem Arab *hfd* ‘tondre; to mow’ [BK I: 456].

308. C *fad- (< Ch **fVd-*, cf. Eg) ‘to sweep, wipe’: C Chuv *méfédəy* ‘nettoyer’, Zlg *fádā* ‘balayer’, Mafa *fad-* (+ *mbar* ‘huile’) ‘enduire d’huile’; 8 Makari *fádī* ‘to wipe bottom’ [ALM]. Secondary *-d-*. //Eg *fd* (Pyr) ‘etw abwischen, fortwischen, to wipe (off)’ [EG I: 581]. For alternative cognates see [EDE II: 607-609]

309. W *fad- > fad- ‘disease, pain’: W 3 Tng *pada* ‘sickness, disease’, Bol *pàdà* ‘pain, sore’ [GAB], Krkr *fadàa* ‘pain, ach’ [GK], Ngm (dial.) *fadà*, *hòdà* ‘pain’ [NEH], Kupto *fàdá* ‘sickness, pain, disease’, Pero *pìdá*, *pìdá* ‘pain’, *peddō* ‘to hurt’, Dera *pàrí* ‘to pain’ [NmK]. Cf. C 5 Glv *fèda* ‘fever’.

//Sem Geez *fawd* ‘tribulation, suffering’, Amh *fayd* id. [LsG: 172].

310. *fHVd- ‘thigh’: C 1 Hona *fúda-ra*, Gaa *fúda-tà*, Gbn *fidə-tà*, Boka *fùdə-tə* ‘thigh’ [Kr], Hona *fèda-ra* ‘thigh’ [Meek]; E 5a Jegu *paado* ‘Oberschenkel’, Brg *fáadi*, Mubi *fíudi* ‘thigh’ [Jglb], Kaj *fíudi*. Cf. E 5a Mig *pàatè* (<*fad-at-*) ‘cuisse’. //Sem Arab *fahd-at-* ‘fesses, derrière’ [BK II: 641].

311. *f(w)Vd-d- > fVr-d-/fVd-d- ‘four’: W 1 Hs *húdú*, *fúdú* [Jglb]; 2 **fVr#* (< **fVd-[d]*, note that Ch **CVd/t- > W 2 CVt#*), Mghv *féer* [BLM], Mpn, Mush [JgO] *féer*, Ngas *fiir* [JgN], Grk *pro* [BIY], *púró*, Mnt *fei* [JgC], Goem *fér* [Hlw]; 3 Bol *p'or-do* [Kl], *pòddo* (<*fod-do*) [GAB], Krkr *fíedu*, Dera *páráu*, Tng *padau* [Jglb], Maka *pàddú* (<*pad-dú*, assim.) [SvP], Ngm *hòdò* [NEH], Gera, Grm *fídu*, Glm *páryá*, [SchB], Bure *pódó*, Kupto *fàdàw*; 4 Kar *fudú*, Diri *fídí*, Miya *fudú*, Pa'a *fídú*, Tsagu *fèdə*, Siri *bíi-féddí*, *bi-fid-di* [**f-d-* SkNB], Paa *fáadú* [MS], Miya *fèdə* [Sch], Wrj *fèdī* [BIS]; 6 Ngz *fúdú*, Duw *fèdū*, Bade *fèdū*; 7 Sha *fíd*, Fyer *píit*, DB *pú?* [JgR], Richa (Kul) *fíud* [RC]; C 1 Tera *vàt*

[NmT], Gabin *fwəda*, Boka *fwəda*, Hona *fada* [Kr]; 2 Bura *fwar*, Chb *fɔdū*, Klb *fōdù* [Kr], Mrg *fōdū* [HfM: 20]; 3 Bana *fādž*, FK *fwādž*, Kap *fwade*, HN *fwāre* [Kr], Hyā *fwudi* [BlH]; 4 Gude *nfāda*, Gudu *fwad*, Nzn *fwat*, FM *fwat* [Kr], Bch *fwat*, Bata *fwot* [Sk], Jimj, Sharwa *fwāt'*, Gude *umfāt'*, Tsuvan *āfwāt'* [BryJ]; 5-5a Mlg *ufāde*, Dghw *fide*; Gdf *ufade*, Gava *ufad*, Chn, Glv *ufada*, Gvoko *ofado*, Lmn *ufada*, Hdi *fʷad*, Vemgo *ufʷad* [HmG], Wnd *ufade*, Lmn *ufādō* [Jglb]; 6 Daba *fōd*, Buwal *ŋfāt*, Mbedam *ñnfad'* [LMb], Mina *nfād* [FrJ]; 7 Chuv *fād*, Muy *fād*, Baka *wifad* [BAS], Mafa *fād*, Ould *māfād*, Merey *fad*, Mbuko *fédo*, Mol *m̥fad*, *əwfad* [FsM], Mofu *m̥fad*, Gis *mufad*, Dugwor *m̥fad*; 7a Skn *fwad*; 8 Zina *fōdī*, Log *gādē*, Kus *kādē*, Afd, Maltam, Makari *gādē*, Mazera *fūdē*, Zina *fōdī* [Sol: 166, TrN with a discussion]; 9 Mnj *pudū*, Mbara *púdū*³⁹; 9a Gdr *podo* [Jglb], *pōdō* [FrG]; 10 Dari *fādī*, Musey *fidī*, Masa, Marba, Peve *fādī*, Hede *fidī*, Ngide *fādī*, Zime *fidī* [Shy], Gizey, Masa, Ham *fidī*, Marba *fidī* [LexC], Azum *fidī*; E 2 **p-r* < **f-d-*: Lele *pōrīŋ* [Jglb], Kaba, Nch *pəri*, Gbr *porin* [Luk]; 3 Smr *wōdīi* [Luk]; 4 Saba *pa²a*, Ubi *pora*, Mawa *par* [HuJ], Ubi *podā* [Alio]; 5a Mig *pōodī*, Bid *paadāŋ*, WDng *pōot*, *pōod*; 5b Mabire *pot* [JnH], Jegu *food*, Brg *fōodī*, Mubi *fādā* [Jglb], MM *faat*, Tor *fōoda*.

//Eg (OK) *fdw* ‘four’ [EG I: 582].

For Chadic data see [Nm **fʷadə*, Jglb *-*pd*], for references - [EDE II: 599].

Note that only the PCh **fVd-d-*-form accounts for all the manifestations of the root in Chadic languages. For the same suff. in numerals see: Ch **kVn-d-* ‘three’, **cir-d-* ‘two’, CCh Mafa *sta-d*, Mofu *té-d-* ‘one’. The suffix can be traced in the bole gr. by assimilation: Bol *poddō*, Maka *paddū*, assim. <*fVd-d-*. Forms in W 2 (namely, **fVt#*) follow Ch **fVd-* <*fVd-d-*, while Ch **fVd->W 2 fVt#*. In other languages **fVd-d->fVdd>*fVdd->*fVd->fVt#*. For *k-* in kotoko numerals see [TrN].

[Gr: 57, ISv: 21].

312. **fVt-* ‘to blow, to start fire’: W 3 Kupto *fiitέy* ‘to blow’, Bol *fitt-* ‘anblasen (Feuer)’ [LkB]; 5 **fwat* (internal -*w-* pl.) Zaar *fot* ‘to blow, winnow’ [CrZ], Plc *fwaat*, Zul *hori*, *fwari*, Geji *hooti*, Dott *fwat*, Buli

³⁹ Irreg. *p-*. Probably, due to regress. assim. of a spirant: *f-d->p-d-*.

farən [Cs №726], Dyarim *fátə*, Guus *fot* ‘to blow (with mouth), winnow’ [CrG]; 6 Ngz *fítú* ‘to blow on, start fire’, WBade *fiitu* ‘to start fire’, Duw *fíuto* ‘to blow’; C 5 Dghw *fítà* [JgIb], Pod *fəta* ‘to blow’; 6 Buwal *fet* ‘to blow with mouth’, Mbedam *fətéw* ‘to blow on’ [LMb]; 7 Mofu *-fət-* ‘éventer en soufflant, souffler’; Chuv *méftèy* ‘souffler’, Mbuko *fefet* ‘siffler’, Mafa *fit-* ‘souffler sur’, Baka *-vete* ‘souffler (vent)’ [BAS]; E 1 Kera *vítì* ‘blasen’.

Derived nouns: a. W 3 Krf *fettó*, Gera *fétà* (<*fVtt-*) ‘wind’ [SchB].

b. W 3 Kupto *fiutá* ‘breath’; C 8 Afd *phtih* [fti:] ‘Atem’ [Sol: 267].

Note E 6 Mok *piutó* ‘soufflet de forgeron’.

//Cf. Sem Arab *fathay-* ‘vent’ (Sem **fth* ‘to open’) [BK II: 533].

a. ***fVfVt- > avat- ‘to fan’:** W 1 Hs *fiifiitaa* ‘to fan food to cool it’, *fiifiitaa* ‘fanning a person’; 2 Goem *fyyuut* ‘to fan smth or blow on smth to cool it’ [Hlw]; 4 Zaar *vat* ‘to fan, blow’ [CrZ]; C 5 Mlg *váta* ‘fächeln, ventilieren’; 7 Ould *-vátay* ‘éventer, souffler le feu’, Muy *ávátā* ‘to blow’, *évitēy* ‘to blow (off)’; 10 Giz, Masa, Marba, Ham Lew, Musey *vét* ‘éventer’ [LexC], Azum *veta* ‘to fan’; E ***pVpVt-:** 1 Mobi *pebde*, Ngam *pepeté* ‘s'éventer’; 3 Ndam *pədà* ‘s'éventer’; 2 Tob *pə-bdé* ‘éventer’.

Derived noun: C 10 Azum *avevet-na*, Musey *vevedta* ‘a fan’ [ShyM].

Cf. C 5 Guus *vaatə* ‘bellows’ [CrG].

//Berb Wlmd, Ayr *fatfat* ‘ventiler, éventrer’ [NZ: 668]. A Chadic loan?

313. *fVt- ‘to sweep, to clean’: W 2 *Mush fét* [JgO], Mpn *fét*, pl. *fəfét* ‘to sweep’, Ngas *fet* ‘to sweep up, clean up by sweepng’ [Fl], *fét* ‘to sweep, to clean’ [JgN], Mghv *fét* ‘to sweep’, *fet pee* ‘cleanliness’ [BLM]; 5 Jimi *fotee* ‘to sweep’ [Cs]; E 4 Mawa *piitiy* ‘essuyer’.

Derived noun: W 2 *Mush fi-nfét* ‘broom’ [JgO].

//Sem Jib *fett* ‘wipe oneself with small stones after excreting’ [JnJ], Omot Wolt *fit-* ‘to sweep’, Gamu *pitt-/fit-* ‘sweep, wipe, rub’ Dac’*e pitt-* ‘wipe’, Koyra *fit*, Yemsa *fit-* id., Sheko *fid-* ‘sweep’, Wolt *fittiya-go*, Yemsa *futu* ‘broom’ [LmW: 357f]. Omot Yemsa *fút-* ‘sweep’ [LmY], NWOMeto Wolt *fitt-*, Gofa *pitta*, Malo *fit-*, Gimira *pitt-* ‘sweep’ [BndO: 323].

[AA 1 №58, EDE II 595-6].

a. ***fat- ‘to scratch, to shave’:** W 2 Ngas *fwat* ‘to scratch ground as fowls do’ [JgN]; C 5 Pod *fəta* ‘raser, to shave’; 6 Buwal *fat* ‘to shave’. Cf. 10 Dzpw *fát* ‘ronger’, Dari *fāt* ‘ronger (uniquement pour les vers

qui s’attaquant au bois’.

Cf. W 3 Bol *puutaata* ‘a game involving scraping out holes in sand’ [GAB].

//Eg *ftt* Amarna ‘vom auslöschen einen Inshrift/to become erased’ [EG I: 580], Omot Yemsa *fiit-* ‘rasieren’ [LmY], Sem Gur (Chaha, Endegen, etc.) *fwäfwätä* ‘to make a hole by scratching, scratch the ground’ [LsGur: 228].

314. *fat- ‘to germinate’: C 7 Mol *fatay* ‘to grow, sprout, germinate’ [FsM], Ould *-fàt* ‘germer, pousser’, Muy *áföt* ‘to grow (plants)’, Mofu *-fáföt-* ‘végéter’; E 3 Ndam *pəžā* ‘germer’ <*pVd-*< **fVt-*.

Note: W 1 Hs *fita* ‘to go out, (crop) to germinate’, 3 Kupto *féktá* (internal *-k-* pl.) ‘to go out, to come out, to appear; to germinate’; Bol *pàtaa* ‘to go out’, in Ventive ‘to sprout, germinate’ [GAB], cf. *fat* ‘to go out; to rise (sun)’/‘hinausgehen; aufgehen (Sonne)’ [LkB].

For the same linking of semantics see Ch Paa *mbá* to go out, germinate’ [MS], Miya *baw* ‘to go out, sprout’ (№1a.**ba[w]t-* ‘to go out’, №3 **baw/y-* ‘to grow, germinate’). In the present case, we may suggest that reflexes of two independent roots (**pVt-* ‘to go out’ (№422) & **fat-*‘to germinate’) conflated in WCh Hs and Kupto.

315. *fVt- ‘to scatter, sprinkle’ W 2 Mghv *fwat* ‘to scatter’; W 3 Bol *pitaa* ‘to sprinkle (spices on food, etc.)’ [GAB], Tng *pite* ‘to spread, sprinkle (powder, ashes, flour)’, Ngm *fit-kô* ‘to sprinkle on (medicine, etc.)’; 4 Wrj *fufutau* ‘adding salt or seasoning to food’ [BLIS]; 5 Zar *fufút* ‘sprinkle powdery substance’ [CrZ]; C 7 Mofu *-fáföt-* ‘saupoudrer, verser une petite quantité’; 10 Azum *fata* ‘to sprinkle (powder)’, Musey *fadta* ‘saupoudrer’ [ShyM], Dzpw *fát*, Dari *fât* ‘saupoudrer’, *fötát fötát* ‘éparpillé absolument partout’; E 5a WDng *pètpidé* (< **pet-d-* or disssim.) ‘saupoudrer’. Cf. E 1 Ngam *pitinyé* ‘se dispercer’. Forms like Mofu *-fáföt-* may follow **Hft* (compensatory redupl.).

316. C *fVt- ‘to cultivate’: 2 Bura *fota/i* ‘to clear field for farming’ [BIB]; 7 Dugwor *mé-fítéy* ‘to cultivate’, Zlg *föt* ‘sarcler, cultiver’, Merey *föt* ‘cultiver’.

a. W **fVt-* ‘hoe’: 2 Mghv *fèt* ‘Berom hoe’ [BLM]; 3 Bol *pèeta* ‘worn out hoe’ [GAB]; 5 Jimi *feeta* ‘hoe’ [Cs].

Cf. C 8 Afd *fting*, Makari *ftə* ‘Erde’ [Sol: 189]; 9 Msg *áftí* ‘Boden’

[LkM], Mnj *aftiy* ‘sol, terre’.

317. *n/HVfut- ‘to turn back, over’: W 6 Ngz *vìutú* ‘to turn away, turn o’s back’; C 8 Kus *fte* ‘to go back, return, turn over (tr.)’ [AlK]; 10 Dari *füt*, Dzpw *füt* ‘changer de direction, s’écarte’. Cf. W 3 Krkr *fitu* ‘to dodge, duck’ [GK]. //Eg *nft* Med ‘verdrehen’ [EG II: 263].

318. W 2 *fuut ‘to vomit’: Ngas *fuut* [Fl], *fuut* ‘to exhale, vomit’ [JgN], Goem *fiut* ‘to vomit smth’ [Hlw], Mpñ *fiut*, Mushere *fiut* [JgO], Mghv *fuut* ‘to vomit’. //ECush dull Gaw *fat-*, *fac-* ‘sich erbrechen’ [AMS]. Eg *ft* Med, Nä ‘sich ekeln; überdrüssig werden; to vomit’ [EG I: 581], for alternative cognates see [EDE II: 590f]. For Ngas-Goem-Eg see [GrL: 300, ISv: 23].

319. C *fVfVt- ‘to diminish’: C 6 Buwal *fefet* ‘to diminish’; 7 Mofu - *fáfət-* ‘maigrir’. Deriv. ***afVfVt- > fVwVt-/vVt ‘small, light’:** 2 Mghv *fyoot* (<* *fV²Vt) ‘to be tiny (of a hole)’ [BLM]; 7 Monguna *vaat* Mangar *vát* ‘small’ [RC], DB *váat* ‘klein, ein wenig’ (< -*fat*) [JgR]; C10 Azum *afafeta* ‘light (of weight)’. Cf. C 7 Mofu *-fət-* ‘prélever une petite quantité, couper en peu’. //Sem Arab *ftt* ‘affaiblir, fatiguer’ [BK II: 531], Berb Wlmd, Ayr *fatfat* ‘être mince comme du papier’ [NZ: 668]. Note the next issue as a root variant: C ***fVd- ‘small, thin’:** C 4 Gude *fódyá* ‘very small’; 8 Makari *fafadí* ‘thin’, derived verb: C 10 Azum *fefdá* ‘to diminish’. //Sem Arab *nāfid-* ‘amaigrir, exténué’ [BK II: 1306].

320. *fVt- ‘skin’: W 1 Hs *fáatà* ‘skin (of a person, animal)’; 3 Krkr *faatàa* ‘skin, hide’ [GK], Bol *pàata* ‘small round piece of leather on which a spindle is spun’ [GAB]; C 5a **xut-* ‘skin’ (< *x-*fVt-*, cf. *x-*čin-* ‘nose’, alternatively, **fu-* > *hu-*, for the same reflex see №327a., note also *fu-* > *hu-* in Hausa): Lmn, Hdi, Vemgo *xuta* [HmG], Hdi *huta*; 7 Ould *àftà* ‘lanières des parures féminines, faites en peau de vache et portées après le premier accouchement’. Deriv. C 9 Mnj *foto-rok* ‘écorce’.

Derivd verb: C 6 Mina *fát* ‘to skin’ [FrJ].
//Om Cara *pata* ‘skin’ [BndO: 120].

321. *fut- ‘hole’: W 2 Ngas *fut* ‘deep hole’ [Fl]; C 7 Muy *mà-ftà-tùr* ‘window’ (cf. *tùrà* ‘wide’), *fötüt* ‘empty’.
//Sem Akk *pītu(m)* ‘opening’ [AHw: 871], cf. Arab *futt-* ‘fente, crevasse (dans un rocher)’ [BK II: 531], ECush Oromo *futee* ‘anus’ [Grg], Om Shin *futt-* ‘durchbohren’ [LmSh], Eg *wft* ‘durchbohren’ Med [EG I:306].
[AA 1 №57 *föt ‘hole’].

322. *fVt- ‘kind of insect’: C 8 Afd *phtō* ‘Floh’ [Sol: 132]; 9 Mnj *foto* ‘charancon’; 10 Azum *fotna* ‘borare (insect in wood)’; E 5a EDng *pátpàt* ‘petit insect rouge qui pique’.

323. *fVt- ‘kind of antelope’: W 4 Tsagu *fiite* ‘oribi’ [SkNB]; C 2 Bura *pta* (assim. < *ft- is regular) ‘reedbuck’; 3 FK *pátà-ká* (assim., f- d/t- forms are not attested in [BlFK]) ‘red bush duiker’.

324. *(*a*)fVti ‘sun’: W 3 Kupto *fiši* ‘sun, (mid)day’, Bol *pòti* ‘sun, daytime’ [GAB], Krkr *fati* ‘sun, daylight’ [GK], Maka *pòoti*, Ngm (dial.) *fòti*, *hòti*, Krf *fiččí*, Glm *piizí*, Grm *fiččé* ‘sun’ [SchB], Pero *póori* (< *pooti*); 4 Wrj *fai*, Paa *fei*, Diri *fata*, Kar *afai* ‘sun’ [SkNB]; 5 Grnt *fudím*, Jimi *huto*, Tala *fidi*, *pidi* ‘sun’, Grnt *fudi*, Jimi *hooto*, Tala *fidi* ‘day’ [Cs], Plc *pidii*, Zul *pæte* ‘sun’ [Cs №406], Guus *fiit* ‘sun, God’ [CrG]; 7 Kul *fat* ‘sun’, Sha *fat* ‘Sonne, Tag, Gott’ [JgR], Mundat, Monguna *fat*, Fyer *vivát* (< *fivat* < *fifat*) ‘sun’, Sha, Mundat *fat*, Monguna *àdáa fát*, Karfa *abá fát* ‘God (high)’ [RC]; C 3 *?afati* > *avati* > *vači*: Bana *v(a)čí* ‘soleil, jour’, *fča* ‘jour’, FK *vàčí*, HN *vìči* [Kr] ‘sun’; 4 Jimj *fiátèn* ‘sun, sky’, Tsuvan *fête?*, Sharva *fête* ‘sun’ [BryJ], FJ *fití* [Kr], Gudu *sota* [Meek]; 5 Gdf, Gava, Gvoko *faciya*, Chn *fečiya*, Glv *fačiya*, Lmn *fiti*, Hdi *fiti-k*, Vemgo *fitə-k*, Dghw *fice* ‘sun’ [HmG], Wnd *futi* [Kl], *vačiyá* [FW], Mlg *vacíya* ‘Sonne, Tag’, *vačíte* ‘Tag’, Hitk *fití* ‘Sonne, Tag’; 7 Dugwor *pàt* ‘sun’ (no forms in f-initial), Mol *fat* ‘sun’ [FsM], Mada *fat* ‘soleil, jour’, Merey *pat*, Ould *fāt*, Muy *fāt*, Baka *fát* [BAS], Zlg *pat* ‘sun’ (irregular labial); 9 Msg *fad*, *fat afat* ‘summer, dry season’ [LkM], Mnj *afat* ‘saison chaude et sèche’, *fātiy*, Mbara *fútiy* ‘soleil’; 10 Dari *fātā*, Dzpw *fātā* ‘saison sèche’, *fātā* ‘soleil, lumière, journée’, cf. Dari *vàdà* ‘soleil, lumière’,

Azum *fata* ‘sun, day’, Musey *fad-ta*, Peve *vàtâ*, Hede *fútá*, Zime *fada* ‘sun’ [Shy], Lew, Marba *'áfât*, Gizey, Masa, Ham, Musey *fât* ‘soleil, jour’, Gizey, Masa *fât* ‘saison sèche’ [LexC]; E ‘sun’: 4 Saba *pidô*, Ubi *pidio*, Mawa *pidi*; 5 Mabire *pat* [HuJ], Mig *páatô* f., Bid *páato*, EDng *pátô*, 5b Jegu *fôot*, Kaj *fàati*, Brg *fôotô*; 6 Mok *pêedô*. //Cf. Eg *'ftyw* Pyr ‘Bezeichnung für Götter’ [EG I: 183]. [JgIb **p*-t, ISv: 21 **phVtV* ‘sun, day’: Bol, Musgu and Margi *fàat*].

325. *(*a*)*fVt-* ‘flour’: W 1 Hs *fâtèefatee* ‘mushy food made with flour’; 4 Wrj *fty-ai*, Paa *fiya*, Siri, Mburku *fiyi*, Diri *afâta*, Miya, Kariya *fii*, Tsagu *fiye* ‘flour’ [SkNB], cf. Paa *fitá* ‘dust’ [MS]; ‘dust’; 3 Kupto *fitó* ‘salt’; C 9 Msg *afdiî* [LkM]; 10 Musey *fudta*, Marba, Peve *fût*, Hede, Zime *fut*, Peve *fur* [Shy], Gizey, Ham, Musey *fút*, Masa *fútúw*, *fút*, Lew, Marba *'áfût* [LexC], Dzpw *fût*, Dari *fût* ‘farine’, Azum *afuta* ‘flour, powder’; E 5a WDng *pùttiyyâ* ‘farine de mil rouge hâtif, mélangée avec l'eau et versée en libation sur un mort’.

[JgIb **pt-* ‘flour’].

Presumably, a derived noun, for the corresponding verb cf. Sem Arab *ftt* ‘écraser, broyer, pilier’ [BK II: 531], Proto-WSem **ptt* ‘to crumble’ [Kg: 95], Berb MC *ftuty* ‘s'éffriter (terre), être réduit en poussière, tomber en poussière’, *aftuty* ‘réduit en poussière; poussière très fine’, Izn *seftuty* ‘émettre’ [NZ: 674f]. Alternatively, Ch ‘flour’ may derive from **fVt-* ‘to scatter, sprinkle (powder, ashes, flour)’ (see above).

326. **fVt-* ‘to dry’: W 3 Gera *fëed-mí* ‘to dry up’ [SchB]; C 5 Pod *fite* ‘sécher le mil germé’.

a. C **fVt-* ‘dry’ adj.: 5 Pod *fit* ‘dry’; 8 Makari *fta* ‘dry, not wet’ [ALM].

b. **fVt-* ‘to spread clothes for drying’: W 3 Tng *pate* ‘to spread clothes out for drying’.

Deriv in *-r-* (pl.): **fVtVr-* ‘to spread out to dry’: W 3 Krkr *fâtâru* ‘to put out laundry to dry, spread things out’ [GK], Ngm *fitrô* ‘to spread out to dry’ [NEH]; C 7 Mada *áftal* ‘étaler, étendre (pour faire sécher)’, Zlg *fâtâl* ‘étendre, déployer’, Ould *fâtâl* ‘étaler’.

327. **fVt/t-* ‘to strike, break’: W 6 Bade *fâstu* ‘to break off’; C 6 Ould *-fâtây* ‘taper, frapper’, (deriv. or pl.) *-fâtâhâ* ‘castrer’; E 5a WDng

pàatè ‘frapper d'un coup, avec un bâton ou de la main’.

//Sem Arab *ft'* ‘frapper qqn sur le dos; jeter par terre; casser, briser; aplatisir’, Arab *fīh* ‘frapper avec un bâton’ [BK II: 609f].

328. *fV(wV)t/t- ‘to roast’: W 7 Kul *fut*, Sha *f'ōt* ‘rösten’ [JgR], Monguna *fot* ‘to bake, burn fire, roast’, Karfa *fwōt* Mangar *fot* ‘to roast’ [RC]; C 4 Mwl *'yfūtā*, FJ *fcə*, FM *fūci*, FB *fici*, Gude *cə* (<*fcə* < **ft*-), Nzn *fitā-di* ‘to roast’, Mwl *ufūta*, Gudu *fyā* (< **fita*) [Kr]; E 2 Lele *pādī* ‘griller, cuire à la braise’ (alternatively, may be cognate with Sem Arab *f'd* ‘cuire (le pain) sous les cendres, faire rôtir les viandes au feu’ [BK II: 527]).

Derived noun: C 6 Buwal *fətān* ‘spark’.

Derived noun: *(*a*)*fVwVt*- ‘(hot) ashes’: W 2 Grk *fát* [BlY], Ngas *fwat* [Fl, JgN], Mpn *fwát*, Mghv *fwat* [BLM], Mush *fwat* [JgO], Chip *fwət* [Kr]; 5 Jimi *hotoo* (<*fotoo*) [Cs №358]; 7 Fyer *futù*, Bok *'afūt*, Karfa *ifyāt* [RC]; C 4 Bch *fito-dižē* [Sk], Tsuvan *fūcē* ‘ashes’, cf. Jimj *fəcān* ‘salt’ [BryJ]; 5 -5a Hdi *huti-dif*, Lmn *xuci-dif*, Hdi *xuti-dif* (**fu-* > *hu-*), Dghw *fcu'e*, Gdf *fce*, Gava, Chk, Chn *fca*, Glv *afca*, Gvoko *fəču* [HmG], Chn *fəčā*, Gdf *fəcē* [Kim]; 7 Baka *viti* [BAS], Mada *āftā*, Gis *'afco*, Muy *vītī*; E 5b Kaj *fitāatāw*.

//Sem Geez *wft* ‘burn, cook’, Sab *wft* ‘burn’ [LsG: 607, Bl: 136].

329. W *fVt/t- ‘to throw’: W 2 Mghv *fwēt* ‘werfen, schlagen’ [JgS], Mpn *vwēt* ‘throw away’; 3 Bol *fatt-* ‘werfen’ [LkB], *pāttu* ‘to throw away’ [GAB]; 6 WBade *fātu* ‘to throw’; 5 Guus *vot* ‘to drop’ [CrG].

a. ***fVt/t-** ‘to descend’: W 6 Duw *əftō* ‘to lie down, incubate eggs’; C 7 Mol *fatay* ‘descend’ [FsM].

//Cf. Sem Arab *ft'* ‘frapper qqn sur le dos; jeter qqn par terre’ [BK II: 609]. Terms for ‘to throw’ & ‘to strike’ are confused in WCh 2 Mghv and in Sem Arabic.

Differently see in [TN №№338, 339].

330. *fV[t]- ‘to slaughter’: W 2 Mghw *fēt* ‘schlachten’ [JgS], Kofyar *fēt* ‘to cut’ (apud [TAS:106]); C 6 ‘to slaughter’: Mina *fāt* [FrJ], Buwal *fat*, Mbedam *fāt* [NdP], Gavar *fat*, Musgoy *fat* [Mo: 24]; 9a Gdr *fōtū* ‘to slaughter’ [FrG]; 10 Ham, Musey, Marba *fēt*, cf. Gizey *fēgēd* (internal *-k-* pl.) ‘tailler au couteau’ [LexC].

Deriv. in *d*: C 7 Mofu *-fətād-* ‘tailler en pointe, couper (les épis de

mil)', Mada *éftèd* 'couper les épies (sans laisser de tige)', Mol *fətaday* 'sharpen to a point' [FsM].

a.**fV[t]-* ‘to harvest’: W 3 Tng *pete* ‘to cut corn, harvest’, Dera *peer* ‘to cut’ [JgIb]; C 10 **fe[t]-*: Azum *feta* ‘to harvest (grain) (cutting off the ears one by one of the high grains, using a knife)’, Gizey *féd*, Masa *fé*, Ham, Musey, Lew, Marba *fét* ‘récolter’ [LexC], Musey *fed̩a* ‘récolter le mil’ [ShyM].

Presumably, the **-t-** ~ **-d-** correspondence within the masa gr. points to PCh *-t-.

331. *fV[t]- / *fw[t]- (or *w-fV[t]-) ‘to lose, to be lost’: W 7 DB *fot*, Bok *fōt* ‘to lose smth’ [RC]; C 10 Masa, Marba *vit*, Peve *fid*, Hede *vid* ‘to lose, disappear’ [Shy], Musey *vid̩a* ‘perdre, oublier, tromper’ [ShyM], Dzpw *vid̩i* ‘(se) perdre’, Dari *fid̩* ‘(se) perdre, s'égarer’, Musey, Lew, Marba *vit* ‘égarer (s’), se perdre’ [LexC], Azum *vita* ‘to be ignorant; to lose’ (*vi-* < *-fi-).

Deriv. C 6 Buwal *fitek* ‘to be lost’.

332. *fVh- ‘sorghum’: W 7 DB, Bok *fō?* ‘Acca-Hirse’ [JgR]; C 8 Makari *fio* ‘sorghum’, Afd *phioh* ‘Hirse’ [Sol: 132], Log *vio* ‘Guinea corn’ [All], Bud *fieu* ‘Negerhirse, Korn’ [LkBd].

Cf. C 10 Masa *fū* ‘boule de mil, nourriture’ [CC], Masa, Gizey, Ham, Musey *fū*, Lew, Marba *‘avū* ‘boule de mil’ [LexC].

333. *fVg- (or *fVY-) ‘to fall’: W 6 Duw *fəgo*, GBade *fāgu*, WBade *əvgu* ‘to fall’, Ngz *vəgū* ‘to fall down’; C 4 Sharwa *fūg*, Jimj *fuič*, Tsuvan *fuiže* ‘to fall’ [BryJ]. The next isogloss is cognate. The semantic link between ‘to fall’ and ‘to throw’ is quite common.

**[f]VY-* (or **nfy*) ‘to throw’: W 4 Wrj *vay-*, Kar *voo* ‘to throw’ [SkNB]; C 4 Gude *vugə-də* (directional suff.) ‘to throw far away’. //Sem Mhr *nfḡ* ‘to throw’ [JM: 283].

334. *fVg/y- ‘to begin, be new’: W 3 Tng *pəgyo* ‘new, young’; C 5 Glv [*fVg-*] *fūyārža fugà* [Kr], *fēgārəšá* (with infixes *-r-* and *-sha-*), i.e. [*fVg-*] ‘to begin’ [Rp]; 8 Kus *faga* ‘(be) first’ [AlK]; E 4 Sok *ófogoo* ‘anfangen’ [Luk]. Cf. C 3 Bana *fūyù* ‘beginning of the dry season’.

//ECush Som *foog* ‘morning, tomorrow’ [LlS].

335. *fak- ‘to shelter, close’ (sg.): C 7 Ould *-fákó* ‘fermer en couvrant d’en haut’ (sg.), cf. *-pāko* (pl.) ‘couvrir’.

Derived noun; W 2 Grk *vu-vok* (<*fu-vok* <*fu-fok*) ‘roof’ [Fp].

Deriv.: W 5 Mng *fuki-ne* ‘to hide smth’ [Cs].

a. ***pV_k- ‘to cover’** (pl. of **fak-*, attested in the mofu languages only.

Alternatively forms in *p-* may follow №446 ***pV_k- ‘to shelter’**): Baka *paká* ‘couvrir’ [BAS], Ould *pákó* (pl. of *fako*) ‘couvrir’.

//Cf. Sem Mhr *fkw* ‘to cover’ [JM: 92]. Note that Hs *k* follows Ch and AA **k*. Thus, Hausa *fákà* ‘to shelter’, *fákèè* ‘a shelter’ (see №446) can not be cognate with Mehri *fkw*. For **fak-* sg. ~ **pak-* pl. see also № 337 ‘to put’.

Cf. [TN №544 *PQ/K ‘to conceal, hide’].

336. *fVwV_k-/*fVfV_k- ‘to blow, whistle, breathe’⁴⁰: W 1 Hs *fúkú-fukù* ‘puffing up or swelling of anything’; 2 Goem *fuk* ‘to blow a flute, inflate smth’ [Hlw], Mghv *fuk* ‘to blow air with bellows; to be very angry’ [BLM]; 3 Tng *puke* pl. ‘to winnow (in calabash)’; 4 Siri *fikū* ‘to blow’ [JgIb], Paa *faki* ‘to blow with mouth’ [MS]; 7 Fyer *vivik* (<*fivik* <*fifik*), Sha *fúk* ‘to blow’ [JgIb]; C 5 Pod *fikʷà* ‘siffler’, Mlg *fiikʷa* ‘a whistle’; 6 Buwal *fefækʷ*, Mbedam *fefek* ‘siffler’ [NdP]; 7 Mofu *-fáfákʷ-* ‘siffler (avec la bouche)’, Mafa *fukʷ-*, Muy *éfikʷéy*, Zlg *fefekʷé*, Merey *fəfuk*, Baka *fikʷéy* [BAS], Mol *fokoy* [FsM], ‘siffler’, Mada *fòfóeyyoκʷ* ‘siffler avec les lèvres’, Chuv *méfákʷoèy* ‘siffler (homme)’; E 3 Tum *pòg púl*, Ndam *piga* ‘respirer’; 6 Mok *píúükè* ‘respirer’.

Cf. CCh **pikʷ-* ‘whistle’ [GvP].

Derived nouns: 1. W **fu(k)fuk-* ‘lungs’: 2 Ngas *fukfuk* [JgN]; 5 Zaar *vùvùk* [CrZ]; 6 Duw, WBade *fəkfək*. Cf. W 1 Hs *fukà, hukà* ‘bronchitis, asthma’ > *fukà-čee* ‘suffer from asthma; to become weak, dried up, exhausted’.

2. W 2 Ngas *fuk* ‘bellows’ [Fl, JgN]; C 8 Kus *vakʷika* ‘bellows’ [AlK].

a. For W 1 Hs ‘puffing, swelling’ (see above) cf. C 2 Bura *fika* ‘to swell up’ [BlB], W 3 Kupto *fukkùl* ‘goitre’; C 10 Musey *fefekka* ‘le gésier’ [ShyM].

For a similar linking of ‘to blow’ & ‘to swell’ see also №290 ***fVʷ/w/y- ‘to blow’**.

//SCush rift **fukuuku* ‘to blow (wind)’ [Kies].

[JgIb *pk* ‘to blow’].

⁴⁰ Possibly, pl. in *-k-*, cf. №290 ***fVʷ/w/y- ‘to blow, dry’**.

337. C 7 **fak-* ‘to put’ (sg. obj.): Muy *áfkā-d* ‘to put down (one obj.)’, Ould *fākō* (sg.) ‘poser sur qqch’. Cf. 4 Bch *fūkō* ‘to fall’ [Sk].

a. **pak-* ‘to put’ (pl.): W 2 Ngas *pak* ‘to put one thing on top of another’ [Fl]; C 7 Ould *pàkó* pl. ‘poser, mettre pl. choses sur qqch d’horizontal’.

338. W 7 **fuk-* ‘to want, love’: DB *fuk* ‘to want, love’, Monguna *fūk* ‘to want’ [RC].

Cf. W 2 Mush *nvíkún* (*nv-* < **nf-*) ‘to be determinate, eager’ [JgO]; C 7 Ould *fākōmá* ‘vouloir, aimer’.

//Sem Akk *puqqu* ‘to heed, be attentive to, concerned, anxious’ OB on [CAD p: 512], Geez *nfq* ‘care for, long for’, Tna *nafāqā* ‘yearn, long for’, Amh, Gur *naffäqä-* [LsG: 389], Akk *nuppuqu* ‘to pay attention’ OAkk [CAD n₂: 342].

339. E **fVk-* ‘to release’: E 1 Kera *fógré* ‘losmachen, détacher’⁴¹; 5a EDng *piké* ‘détacher (les bêtes), lâcher, relâcher, relaxer’, WDng *pikè* ‘relâcher, lâcher’.

//Sem Arab *fkk* (u) ‘dégager, défaire; séparer, (re)lâcher’ [BK II: 623].

340. **fVk-* ‘dry season’: W 3 Krf *fókkí* ‘warm (weather)’ [Stl]; C 2 Bura *faku* [BLB], Ngwahi *fwohu* [Kr], Kl^b *fwàkù* ‘dry season’ [MuK]; 5 Hitk *fàakà* ‘heisser Jahreszeit’. Cf. W 3 Kupto *fàkkàk* ‘shining, beaming’.

//Common Berb *fk* ‘soleil’: Shilh, Ntifa, Sen *tafukt* ‘soleil’, Qab *tafukt* ‘soleil, chaleur’, etc. [NZ: 547f].

341. C 10 **fVyVk-* ‘long, tall’: Masa *fyòk* ‘longueur’, Musey *fekka* ‘longeur, hauteur’, Gizey *fiyòk*, Ham *féék*, Lew *fiyék*, Marba *fiyák* ‘haut, long’ [LexC], Azum *fiaka* ‘long, tall’ Cf. W 1 Hs *fiifíkò* ‘superiority’.

//ECush dull Harso, Dob *faak-* ‘grösser sein, hoch sein’ [AMS].

342. C **(?a)-fVk(w)-* ‘face, front’ : 5 Wnd *áfskè*, *wofke* [WfN], Mlg *fóke* ‘Gesicht’, Glv *vúkʷa* ‘face’; C 8 Zina *má fká* ‘before’, Kus *fago* ‘in front of, front of’ [AlK]; 10 Musey *fok’* [ShyM], Masa *vòk* ‘le front,

⁴¹ For an alternative cognate for Kera, namely – Eg *fħ* ‘ablösen, loslassen/release’ see [TN №474].

devant, avant' [CC], Gizey, Masa, Ham *vòk*, Lew, Marba *àvòk*, Musey *fòk* 'devant' [LexC], Dari *vūk*, Dzpw *vùk* 'front' (*'afVk-* > *avVk-* > *vVk-*). Cf. W 1 Hs *fúskà* (if <*fuk-sa*, metath.) 'face, embroidery on front of gown'. Note: "Kan *føska* ? <> Hs" [SkH: 71].

343. *fV[k]- ‘to dig’: W 2 Ngas *fok* ‘to dig’ [Or], *fòk* ‘to dig a hole’ [JgN]; E 4 Saba *’apke* ‘to burry’.

Derived noun: ***’afVk- ‘hole’:** W 6 Ngz *vèk*, WBade *vèkən* ‘hole’; C 5 Pod *vge*, Wnd *əvge* ‘trou’ [Mo: 19], Wnd *évege* ‘hole’ [FW], Glv *áfgà* ‘ditch, hole, hollow, opening’; C 10 Dari *fòk* ‘trou laissé par qqch’. Hardly < AA **bk* ‘hole’ as in [TN №91].

//Sem Arab *faq'a*, *faqiy-* ‘creux dans un sol dur’ [BK II: 617], dull Dob *puqe*, Goll *pae* ‘Fenster, Loch in der Wand’ [AMS].

Note C 4 Gude *fíkə-nə* ‘vagina’, possibly < Sem Arab *fūq-* ‘ouverture de la bouche; vagin’ [BK II: 648].

344. *fV[k]- > fy/wVk- ‘to have bad luck’: W 2 Mghv *fyak* ‘to feel annoyed, pained’ [BLM]; C 10 Dari, Dzpw *fòk* ‘avoir de la malchance’ //Sem Akk *pīqu* ‘distress, difficulty’ SB [CAD p: 394], Arab *fuwwāq-* (*f'q*) ‘douleur, peine’ [BK II: 529]. Cf. ECush dull Goll *pok-* ‘Schmerzen haben’.

345. W *fVk- ‘to sharpen, sharp point’: W 1 Hs *fíkà* ‘to sharpen to a point’

Derived nouns: W 1 Hs *fíkà* ‘fang of an animal, canine tooth’, *fiikee* ‘any sharpened point’; 2 Goem *fuak* ‘kind of spear’ (apud [TAS: 113]); 3 Kupto *fik* ‘arrow’.

//Sem Arab *fq'* ‘percer (un clou sur le corps)’ [BK II: 621]. ECush Som *fiiqay* ‘to sharpen’, *fiiq-a* ‘point, tip’ [LIS].

For Hs-Sem see [TN №366]. Cf. Eg *fq* ‘vom Löwen, dessen Krallen und Zahne das Wild ‘zerreissen’/about lions, whose claws and teeth tear the prey’ [EDE II: 584f].

346. *fVk- ‘hard earth, farm’: W 1 Hs *fákò* ‘hard, barren ground’; 3 Kupto *fiifik* ‘land or place where there are garvels’, cf. Kupto *fuhà*, *fukà* ‘sand’; C 2 Chb *foku* ‘Farm, Feld’ [HfC], Bura *faku* ‘farm’ [BIB]; 5 Pod *fika* ‘champ de mil de la saison sèche’.

//Sem Arab *fāq-* ‘desert’ [BK II: 648].

347. *fVs- ‘to boil, burn’: W 1 Hs *tà-fasà* ‘to boil’; 7 Fyer *fwaš* ‘verbrennen’, DB *fāš* ‘rösten’, Sha *fos* ‘kochen’, Bok *fos* ‘kochen’ (intr.) [JgR], *fos ya*, Monguna *fos* ‘to boil (up)’ [RC]; C 5 Hdi *fəsay* ‘to grill’.

//Eg *fs* alt, später *pfs, ps* ‘kochen’ [EG I: 578]. For alternative cognates: Eg, WCh, CCh **pc*, etc., see Cf. EDE II: 582-584].

348. *fVs- ‘to rob; robbery’: W 1 Hs *fáši* ‘highway robbery’; C 3 FK *fwásà* ‘to rob’; 4 Gude *fwásà* ‘highway robbery, mugging’.

//SCush rift **fiis* ‘to steal’: Irl, Gor, Alg, Bur *fiis* [Kies], cf. agaw Hamta *fiis-*, Kem *fāš-* ‘to take away’ [ApAg]. Cf. [TN №469].

349. *fVs- ‘to sprinkle, make wet’: W 1 Hs *féesà* ‘to spurt out water from the mouth on to an article’; 7 DB *fes* ‘(to be) wet’, Karfa *fes* ‘to make wet’ [RC]; C 4 Gude *fəši*, *fisə* ‘to spray water out from mouth’, Bch *fiisə* ‘to spew, sprinkle’ [Nm]. Cf. W 3 Bol *fuuš-* ‘to wash (clothes)’ [LkB].

Possibly, a metath. variant of Ch *sVf- ‘to drizzle, flow’, see [CLD III №573].

350. *fVfVs- (compensatory redupl. < *HVfVs-) ‘to scrape, erase’: W 2 Ngas *fiis* ‘to scrape off the hair on a skin for tanning, be bald, be free of hair’ [Fl], *fis* ‘to remove hair, esp. from animal skin’ [JgN]; C 7 Mofu -vávəs- ‘effacer, faire disparaître des traces’, Mbuko *vevas* ‘effacer’ (<*fVvVs- < fVfVs-*); 9 Mulwi *fifisi*, Mnj *fifisi* ‘effacer’. Cf. 5 Pod *vusa* ‘to erase, cross out; essuyer, effacer’.

//Sem Arab *ʃʃs* ‘frotter (une peau pour la préparer)’ [BK II: 299], ECush dull Dob *fas-* ‘kratzen’ [AMS], Om Walt *foossh-* ‘to scratch’ [LmW: 356].

351. *n-fVs- ‘to blow, breathe, operate bellows’: W 7 DB *nafos*, Bok *lafōs*, Monguna *mafōs*, Sha *lufwos*, Mundat *lafōs* ‘to breathe’ [RC]; C *vVs- < nfVs-:* 4 Gude *vasə* ‘to smoke animal out of hole, operate bellows’; 5 Vemgo *vusu* ‘to blow’ [HmG]; 7a Skn *vus-ma* ‘to blow at smth’; 8 Makari *fasi* ‘to work the bellows, fan, air, breath’, Log *vasi-wun* ‘to fan’, Kus *se vas* ‘respirer’, cf. *vaska* ‘to light fire’ (if = ‘to blow up fire’) [Al], cf. Log *fifāssə* (compensatory redupl.) ‘to blow’ [JgIb]. Cf. CCh **vats* ‘to blow’ [GrR].

Derived noun: W 6 Monguna *mafós* ‘life’ [RC]; C 8 Log *viši* ‘breath, soul, spirit’, Kus *vas* ‘soul, spirit (of living person), breath’ [AIK].

//Sem **nps* ‘to blow’ > ‘soul, breath, wind’: Akk *napāšu* ‘blasen, (auf)atmen, relax’/‘to breathe freely’ OA, OB on [AHw: 736, CAD p: 288], Geez *nafsa* ‘to blow (wind, spirit)’, *nafs* ‘soul, spirit, breath’, Sab *nfs₁* ‘soul’, Hbr *npš* ‘to take a breath’, Aram, Ug *npš* ‘soul, person’, Ethiosem *nfs* ‘to blow’ > ‘wind, soul’ [LsG: 389], Ug, Phn, Pun, OArab *npš* ‘throat; breath, soul’ [DUL: 627], Arab *nfs* V ‘respirer’, *nafas-* ‘respiration; souffle’, *nafs-* ‘ame, principe vital’ [BK II: 1310]. Cf. [SED: I 389]. For a metath. see **sVf*- ‘to breathe’ [CLD IV №65].

352. *fuz- to pierce’: W 2 Kofyar *fūs* ‘to pierce’ (apud [TAS: 292]); C 7 Mafa *fuza'a* ‘percé (porte, habit)’; cf. E 6 Mok *appizá* ‘percer (avec une lance); tatouer’ (an arabism ?).

//Sem Arab *hfz* (i) ‘percer avec une lance’ [BK II: 458].

For Mafa-Mok < AA*p-ʒ see [TN №346].

353. *fič- ‘to cut, slice’: W 1 Hs *feets'aa* ‘to wound superficially’, *feets'ee* ‘a short cut’; C 3 FK *vīcà* ‘to cut’ (**fVc/č-* > *v-c/č-*); 7 Ould *fēcāy* ‘tailler, couper un épi’, Mada *éfcé* ‘couper, trancher’. Deriv. in -d-: C 7 Merey *fəcad* ‘tailler’.

354. *fVč- ‘to blow, to smoke’: W 1 Hs *fāačè* ‘to blow the nose’; 4 Diri *fāčù*, Tsagu *fées-* ‘to blow’ [SkNB]; C 7 Mada *ávàčà* ‘souffler’, Chuv *mévèčèy* ‘enfumer’, Mofu *-fāč-, -vāč-* ‘enfumer, activer (le feu)’, cf. Muy *ávàcāy* ‘to treat, cure by blowing’ (**fVč-* > *v-c/č-*, or < **nfč-*). Derived noun: C 6 Daba *vīč* ‘soufflets de la forge qui servent pour activer le feu’.

//Sem Arab *nft* (i, u) ‘souffler sur qqch’ [BK II: 1304]. [HSED №789].

355. *fal(l)- ‘to slaughter, cut’: W 1 Hs *fällè* ‘to behead a criminal’; C 10 Dzpw *fäl* ‘couper en morceaux, égorer’, Peve *fol* ‘to butcher’ [Vn], Mesme *fäl* ‘to cut’ [Kr], *fäl* ‘cuts’ [JgZ]; E 2 Lele *pàl* ‘tailler légèrement’; 3 Tum *päl* ‘tailler, sculpter’.

Derived noun: C 7 Mada *me-fefel* ‘cicatrice’.

//Sem Arab *fl'* (a) ‘fendre, couper’ [BK II: 631].

a. ***fil- ‘to cut (in pieces)’:** W 2 (deriv.) Mghv *filet* ‘to cut a small

piece' [BlM]; C 7 Muy *éfil* 'cut round smth'; E 5a EDng *pilé* 'dépecer'.

//Sem Arab *fly* (i) 'frapper avec un sabre' [BK II: 635], Aram *pəlā* (*ply*) 'split, cut open' [LsG: 161] Malt dial. *fellel* 'to slice, to cut into slices' [Bel 2: 275], Shilh *flu*, Siwa *fli* 'fendre', Ahag *efleh* 'se, être fendre', *efli* 'fendre' [NZ: 562, 567, 575].

[AA 1 №38 'to cut, separate', cf. **pVl-* 'to separate' ~ Sem Arab *faliya* 'be cut off'].

356. **filjl-* 'to pierce, hollow out': W 2 Ngas *fylan* (<*fila-n* pl. in *-n*?) 'to hollow out, bore a hole' [JgN]; C 7 Mada *éfle* 'évider, percer', E 5a EDng *pilé* 'échancrer, (entr)ouvrir, trouer, bérer, bâiller'. Note confusion of semantics 'to open (slightly)' & 'to hole' in EDng.

Cf. C 8 Makari *falal* 'spear sp.' [AlM].

//ECush dull Harso, Dob *foola* 'scharf', Goll *fool-* 'scharf sein' [AMS]. Derived noun: ****ful-* 'hole':** W 2 Goem *ful-dyas* 'anus' ('hole' + 'excrements') [Hlw]; C 2 Bura *fula-m* 'throat' (-*m*- is a body-part' marker) [BlB]; E 3 E Tum *pùül* 'trou'.

Derived verb in *-k-*: C 7 Mofu *-fólkw-* 'passer à travers un orifice, entrer, pénétrer'.

Derived noun: C 7 Mbuko *felek* 'trou à côté de l'oreille', Muy *fələkʷō* 'any hole in a wall of a house'; 8 Log *flaga* 'cave, grotte' [AIL]; E 5a WDng *páliigò* 'trou de terrier de souris, tunnel latéral'.

//Sem cf. Geez *falfala* 'gush out, break forth', etc., (K* 'to shell, pierce'), Tgr *fälfälä* 'sprout forth, break through', Tna *fälfälä* 'break, make a hole'⁴² [LsG: 158], Berb Qab *flu* 'trouer, perforer', *tifli* 'petit trou', Mzab *fel* 'percer' [NZ: 561f], ECush Oromo *fulla'a* 'break through, pierce through', *fulla'a* 'be broken' [Grg], Burji *ful-áa* 'hole', Oromo *fullaw* 'be perforated' [SsB], Konso *fula* 'Loch, Tur', Ong *fullé* 'hole, passage, nostril' [FlO], SOm Hamer *pula* 'hole' [BnA].

357. **fil-* 'to open (eyes)': W 3 Kupto *filléy* 'to open (esp. eyes in order to frighten so)', cf. 2 Mghv *fəlip fəlip* idf. 'halboffen (von Augen)' [JgS]; E 5a WDng *pilè*, Bid *pil* 'ouvrir', EDng *pilé* 'ouvrir, bâiller, trouer'. Cf. the previous entry.

⁴² For 'to break' in Sem cf. CCh **ful-* 'to break': 1 Hona *fūləj*, Boka *filə-dī*; 4 Nzn *fila-adi* 'to break in pieces' [Kr]; 4 Bch *fūlō* 'to break pot' [JgIb].

//Berb Ahag *felelli* ‘être fixe et grand ouvert (oeil)’ [NZ: 576]. For Ahag, ECh see [TN №442].

358. *fil- ‘to peel, skin’: W 2 Ngas *fil, fhil* ‘to peel, skin’, *fwál-p* (pl.) ‘to strip, peel’ [Fl, JgN], Mghw *feel* ‘häuten’ [JgS], ‘to peel’ [BlM], Mush *feel* ‘to peel cocoyam with hand’ (apud [TAS:105]); E Mawa *peliyan* ‘dépouiller’; 5a Bid *pil* ‘écorcher un animal, dépouiller’, EDng *pilé* ‘dépecer, dépouiller, enlever la peau d'un animal’; 5a Brg *fili* ‘écorcher’.

Derived noun: W 2 Ngas *fil* ‘the slough or cast skin of a snake’ [Fl], *ma-fel-p* ‘fish scale’ [JgN], Goem *tə-fala-p* ‘bark of a tree’ [Hlw], Mpn *fəlī-p* (-p pl.) ‘husk, shell’; 5 Zaar *fwáli* ‘slaughtered-off skin of snake or lizard; bran’ [CrZ]. Cf. W 4 Miya *peler* ‘skin, hide’ (possibly <*feler*, in [Sch] *f-l* structures are not attested).

Deriv. in *-k-*: C 7 Ould *-fəlak* ‘décortiquer’; 9 Mnj *fulki* ‘décotiquer (arachides), éplucher à la main, ‘égrainer à la main’, Mulwi *fúlkí* ‘éplucher, décortiquer’.

Deriv. in *-t-*: C 10 Ham *félét*, cf. Gizey *léfét* (metath.) [LexC], Musey *fūlot* ‘décortiquer’ [ShyM].

//SCush Bur *fala*, Asa *fulo* ‘hide’ [Eh: 150], SCush Irw, Gor *fala* ‘hide, prepared skin’, Alg, Bur *fala* ‘skin’ [Kies], Afar *falee* ‘Ziegenhaut’ [RA], Sem Arab *wfl* ‘peler qqch en en étant l'écorce’ [BK II: 1578], cf. Berb *fl* ‘tanner, assouplir’: Shawiya *afel* ‘tanner’ Ahag, Wlmd, Ayr *afel* ‘être tanné’, etc., ACE *tifli* ‘écorce’ [NZ: 560f].

[AA 1 №68 **fVl-* ‘(to) skin, peel’: Arab, SCush, Ngas, Mghv; TN №№505, 507].

359. *fVl- ‘to boil’: W 2 Goem *fyàl intr.* ‘boil or sparkle’ [Hlw], *fial* ‘hot’ [Fp], Grk *fwil* [BIY], Ngas *fil* [JgN], Chip *flyèl*, Mghv *fil* ‘to boil’ [Kr]; 3 Krkr *filu* ‘to boil’ [GK], Kupto *filò* ‘to expand, to bloat, to reach a boiling point’, Dera *pùli* ‘to boil’ [NmK], Bol *fulo* ‘Kochen’, *?i fulo* ‘kochen, to boil’ [LkB], *pulu* ‘to boil, swell, foam, be angry’ [GAB] (cf. Tng *pule* ‘to be(come) annoyid, angry’, for the similar semantic shift see Geez); 5 Grt *fulwi* ‘to boil’; E 4 Mawa *pə-pələ-ŋ* ‘bouillir, cuire’.

Derived noun: W 2 Ngas *tə-fólk* ‘foam, froth’ [JgN]; 3 Bol *pùlùm-pùlum* ‘foam, froth’ [GAB], Pero *púlpúl*.

Derived verb: W 3 Bol *pùl-tu* ‘to ‘boil, cause to swell’ [GAB]. For Bol *pulu* ‘to swell’ cf. W 3 Tng *pildum* idf. ‘describes state of swelling’

and W 1 Hs *fūlú-fūlù* ‘the swelling of eyes; of seeds’.

//Sem Geez *falha* ‘bubble out, boil’ > ‘get angry’, Argobba *fällaha*, Tgr *fähä*, Amh *fälla*, Harari *fälähä*, Gur *fala* ‘boil’ [LsG: 159], ECush dull Gaw *fool-* ‘Wasser kochen’, *foolis-* (trans.) ‘kochen’, *foola* ‘warm’, Dob, Goll *fool-* ‘warm werden’ [AMS], Ong *foolisa* ‘boiled’ [FlO], Berb Shilh *fluflu* ‘bouillir’, Maroco dial. *flulel* ‘bouillonner’, Wlmd, Ayr *falfal* ‘bouillir, bouillonner (liquide)’ [NZ: 560].

360. *fV(l)- ‘to mount (an animal)’: W 4 cf. Miya *pəla* < *fəla* ‘to jump’ (forms of the *f-l* structure are not attested in [Sch]); C 2 WMrg *fil-de* ‘to mount’ [Kr], Bura *fil*, *fil-ta* ‘to ride, to mount’, *filhi* ‘to dismount’ [BIB], Klb *fēl-ti* ‘to mount’ [MuK], Chb *fil*, *fōl-té* ‘besteigen’ [HfC]; 10 Musey *fulla* ‘monter, embarquer’ = ‘descendre’, Gizey *fil* ‘monter à cheval’, Gizey, Masa, Ham *fil*, Musey, Marba *fūl* ‘monter à velo’ [LexC], Azum *fula* ‘to mount an animal’.

//Berb Shilh *afila* ‘partie supérieure; le haut’, Ntifa, Zng *afella* ‘le haut, le dessus’, etc. [NZ: 557], HECush **ful-* ‘to climb, go up’ [Hds], PECush **fu(u)l-* ‘go out, up’: Som *fuul-* ‘mount’, Sid, Darasa, Kamb *ful-* ‘go out, mount’ [Ss], Som *fuul* ‘get on top of, climb, mount’ [LIS]. Cf. Eg *þy* (OK) ‘hochheben, tragen, raise high’ [EG I: 572], for other possible cognates see [EDE II: 555-557].

Cf. №377 **fVr-* ‘to spring, jump, fly’.

361. *fVl- ‘to blow (away)’: W 4 Jmb *fal-* ‘to blow’ [SkNB]; 5 Grnt *fali* ‘to blow’ [Ja]; C 2 Bura *fifilə* ‘to whistle with the breath’, cf. *fibəla* (dissim.) ‘to blow out’ [BIB]; 8 Makari *fil* ‘to blow away’ [AlM]; 10 Azum *fela* ‘to be blown about’, Gizey *fūl* ‘souffler’ [LexC]; E 1 Kera *fūlūlī* ‘souffler’. For a root variant see №381**fVr-* ‘to blow, winnow’ (note that both are attested in Bura).

For a possible deriv. cf. W **f(w)l-k* ‘lungs’: 2 Ngas *fwolok* [Fl], Mghv *fələk* [JgS], Mpñ *flòk*, Goem *fələk* [Hlw]; 7 DB *folōk*, Bok *fōlōk* [RC].

//HECush **fool-* ‘to breathe’: **foole* ‘breath’: Sid *foole* ‘breath’, Kamb *fooli* ‘soul’ [Hds]. Cf. [TN №567 **Pl*].

a. ***fVl- ‘wind’ > ‘ghost’:** W 3 Bol *pēlī* ‘wind’ (perhaps only in archaic language), *pe-mpeli* ‘wind, spirit, ghost’ [GAB], Krkr *filfilà*, *fiifilàa* ‘wind’ [GK], Kupto *filfil* ‘wind, air; spirit, devil’; 5a Hdi *fala-k* ‘wind’; 7 Mada *fla* ‘génie, esprit lié à un objet magique, souvent maléfique’; 10 Azum *flei-na* ‘idol, oracle’, Dzpw *für* ‘esprit’, Gizey

ful ‘esprit’, Marba, Musey *ful-na*, Ham *ful* ‘esprit-génie’, Masa, Lew *ful* ‘génie de la brousse’ [LexC]; Cf. E 3 Tum *púl* ‘air’.

362. W **ful-* ‘to abuse’: 2 **ful-p* (pl.): Grk *fluep* ‘to abuse’ [Fp], Mghv *fulup* ‘to curse’ [JgS] ‘to abuse’ [BLM], Mpn *fələp*, Mushere *fulup* ‘to abuse’ [JgO], Mush *fulup* [JgO], Goem *fələp* ‘to insult smb’ [Hlw]; 3 Krkr *fūlu* [GK], Bol *full-* ‘abuse, curse’ [LkB], *pūllu* ‘to abuse’ [GAB].

Cf. W 2 Grk *flup-ni*, Mnt *ful-ni* to curse‘ [Fp] (pl. in *-n?*).

//Cush Arb *fal-* ‘to curse’ [Hay], Rend *fal-* ‘curse’ [Ss: 18], Eg *fʒw* [if = flw] (Pyr) ‘Bedrohung o. a.’ [EG I: 575].

Common origin of Ch and Sem **f'l* (as suggested in AA 1 №67) is hardly possible, in the view of a semantic gap. Note: Arab *f'l* II stem ‘faire tirer à qqn un bon augure/to make favourable prophecy’ [BK II: 529], Sab *f'l* ‘wish ill to smb’ [SD: 43], Hbr, Aram *pl'* ‘make miraculous, miracle’ [KB: 759f].

363. **ful-* ‘(exhausted) field’: W 2 Ngas *ful* ‘soil exhausted from cultivation’ [Fl], *ful* ‘farm land passes on from generation to generation; sterile land (exhausted from cultivation)’ [JgN]; 5 Guus *vul* ‘ground’, Zaar *vūlūm* ‘field cultivated by the grand-father’ [CrG, CrZ]; 10 Azum *fula* ‘the plain where the people have their fields’, *fulā* ‘the uninhabited plains’.

a. ****fil-* ‘open space’:** W 1 Hs *filīi* ‘an open space, cleared spot’; 3 Krkr *filaa* ‘a place’ [GK]; C 7 Zlg *fəla* ‘region’.

Deriv. in *-k-*: W 6 Bade *fəlak* ‘dry, barren area’; C 10 Gizey *fūlōk* ‘dust’ [LexC].

//Cf. Sem Arab *flh* ‘labourer la terre’ > *falah-at-* ‘champ cultivé et ensemencé’ [BK II: 628].

364. **fvl-* ‘diarrhea, excrements’: C 6 Mbedam *m̥vəlā* ‘diarrhea’ [NdP]; 9 Mnj *flay* ‘crotte, excrements’, *flay zi mi* ‘diarrhée’, Msg *fūlai*, *filai*, pl. *fila-káy* ‘excrements’ [LkM], Mnj *flay* ‘merde’; 9a Gdr *pəlwá* ‘excrements’ (irreg. *p-*) [FrG]; E 4 Barein (dial.) *pilló* ‘to have diarrhea’; 5 Mig *pálló* ‘déféquer’, *pàllì* pl. ‘fécales, selles’. //ECush Som *fal-ti* ‘cattle dung’ [LIS].

365. **fVn-* ‘to surpass, overtake’: C 7 Mafa *fón-* ‘être supérieur à,

dépasser', Mofu *-fən-* 'dépasser, surpasser'; 8 Log *fina-wun* 'overtake; surpasser', Kus *fra* 'surpasser, dépasser; overtake', Makari *fīra* 'overtake' [Al].

Derived noun: W 4 Wrj *fana-na* 'pride, arrogance' [BIS].

//Sem Arab *fn* '(a) 'être riche, s'enrichir' [BK II: 638].

The following isogloss may be cognate:

a. ***fVn- 'to increase'**: C 6 Daba *fòn* 'élargir'; 10 Dzpw *fāy* 'devenir, grandir, métamorphoser'; E 5a EDNg *pènyiyē* 'se multiplier, augmenter.'

366. C *(HV)*fin-* > *vin-*, *vin-x-* (pl.?) 'to vomit': 3 Bana *vənəxwà*, FK *vənəhú*, Hyā *fənu-gwə* [BlH]; 4 Gude *vaana*, Jimj *viúní*, Tsuwan *vəná?n*, Sharwa *vánā* [BryJ], Bata *vəna* [Sk]; 5 Lmn *vunayʷa*, Hdi *vənaxinta*, Vemgo *venaxʷa*, Gvoko, Dghw *vraxa*, Gdf *vərxa*, Gava *vrxa*, Glv *vraga* [HmG], Glv *vərəy* [Rp], Pod *vəra-ha*; 6 Buwal *vəna*, Daba *vənà*, Gavar *vəna*; 7 Dugwor *mé-vinéhéy*, Mafa *vínéh-*, Chuv *mévənèhèy*, Mbuko *véne*, Mol *vənahay* [FsM], Mada *ávnàh*; 8 Log *vinahi-wun* [All]; 9 Mbara *finé*; 10 Masa, Marba, Musey *vin*, Lame *viné?e* [Shy], Dzpw *viné?e*, Azum *vina*.

Derived noun: C 7a Skn *fine-di* 'child's sickness (vomitind and "tightening of the belly").

Cf. CCh **vinah* [GrR].

367. *fVn- 'skin': E 4 Sok *fáná*, *páná*, *pháná* 'Fell' [Luk]. Note C 3 FK *fùn* 'rhino'; 7a Skn *fən* 'rhino (hide used for shields)' [DS].

Denom. verb: ***fin- 'to skin':** W 2 Goem *fin* 'to peel off the skin of smth' [Hlw]; C 10 Dzpw *finé?e*, Dari *fənè?* 'muer, peler (pour la peau)'.

//Cf. PHEC **feenk-* 'to shell' [Hds].

For a root-variant cf. №358. ***fil- 'to peel, to skin':**

368. *fV(HV)n- 'foot, trace': W 2 Goem *vuj* 'footprint' [Hlw]; C 7 Muy *fūjwā* 'trace of smth'; E 4 Sok *offen* <*fVHVn*) 'Fuss, Bein' [Luk]. //Sem Ug *p'n* 'foot, (hind) hoof' (Hbr, Phn, Pun *p'm* 'foot') [DUL: 650], HECush **faana* 'track of an animal' > Burji, Sid, Gede'o, cf. Sem Amh *fana* [Hds].

369. *fifin- (compensatory redupl. < HV*fin-*) 'stalk for brooms,

fences: W 4 Wrj *fifina* ‘kind of grass, smth used for brooms’ [BIS]; C 7 Mol *fefen* ‘stalk’ [FsO], Muy *fifinj* ‘millet stalk’, Mada ávvàŋ (< ?avVfVn- < ?afVfVn-) ‘tige de mil’; E 5a Mig *pìnú* ‘paille pour les palissades’.

For a root variant see №522. ***pan-** ‘millet stalk (for plaiting)’.

370. [*w-f-n] > fwan-/vwan-/hwan- ‘rain’: W 2 ‘rain’: Grk *fien* [Fp], Ngas *fwan* [Fl], Goem *fwāan* [Hlw], Mghv *fwan* [BIM], Mpñ *fwān*, Msh *fwan* [JgO]; 4 Wrj *von* [BIS], 5 Dyarim *vwan*, Guus *von*, [CrG], Zaar *vòn* [CrZ], Grnt *vwan*, Jimi *hwan* (<*fwan*), Tala *hwan*, *faan* ‘rain’, Tala *ba-hawan* ‘rainy season’, *tərə-hwano* ‘rain-bow’, Mng *fwán* ‘cloud’ [Cs], C 3 FK *vàn* ‘rain’; 4 Gude *vóná* ‘rain’, *vyánə* ‘rainy season’, Jimj *vónán*, Tsuvan *vwóné*, Sharwa *vòná* ‘rain’ [BryJ]; 6 Buwal *van*, Daba *vàn*, Mina *ván* [MnGr], Mbedum *vàn* ‘rain’; 7 Gis *voj* ‘rain’, *bil-voj* ‘Gott’, Mafa *vanay* ‘nuage’, Ould *āvər* Muy *āvər*, Baka *āvər* ‘rain’ [BAS], Mofu *vár* ‘pluie, nuage’, Mbuko *vévara* ‘vent qui précède la pluie’; 9 Msg (*a)faj* [LkM], Mnj *faj* ‘pluie’. Cf. CCh **vin* ‘rain’ [GrG].

371. *fVn- ‘black’: W 7 Karfa *ufon*, Kul *má-fwòn* ‘black’, *fwanàn* ‘dunkel’ [RC, JgR]; E 5a WDng *pón-dà* ‘noir’, EDng *pùn-dà* ‘sombre, noir, foncé (symbole de méchanceté)’. Cf. C 7 Ould *fēyw* ‘nuit’.

The structure of the next root is typical of derived nouns:

a.*afVn- ‘charcoal’: W 3 Ngm *ūfna* [NEH]; 4 Paa *avuj* (cf. Kariya, Jmb *li-vin*) [SkNB]; 6 Ngz *āván*, Bade *avan* ‘embers, charcoal’, Duw *vàanyaakâ* ‘embers’, *vàanyi* ‘charcoal’; C ‘charcoal’: 2 Bura *vina* [BIB], Klb *vúni*, Hld, Mrg *vwunyi* [Kr]; 4 Chn *āvèni*, Gude *?ivínyin* [Kr]; 5 Hdi *vwani*; 7 Chuv *vòj*, Mafa *váng*; 7a Skn *vin*; 8 Kus *uvun* [AlK]; 9 Msg *āgvèj* [JgIb], Mnj *evenj*; 10 Peve *vōn* [Shy *v-n], Masa *vèj*, Dari *vōn*, Dzpw *?évàn*.

Note C 8 Afd *phánphan* [Sol: 132], Makari *fonfon* [AlM] ‘charcoal’ (orig. ‘black-black’??).

Cf. CLD V №242 ***yVw-** ‘fire’ > ***y^wV-fVn-** (< ***y^wV-?afVn-**) ‘burning coal’ (e.g., C 5a Lmn *yùvíní*, ‘ashes, coal’, etc.). An alternative etymology of Ch ‘coal’, namely, - Sem **fahm-* ‘coal’⁴³, is attractive,

⁴³ Akk *pēntu* (*pēndu*, *pēmtu*) ‘charcoal, embers’, Arab *fahm*, Hbr *peḥām*, Soq *fham*, Ug, Phn *phm*, Geez *fahm* ‘coals’ [LsG: 157]. Denom. verb: Arab *fħm* ‘être très noir, noir comme le charbon’ [BK II: 550].

but not without a problem. There is no proof that **fVHm-* would yield *vVn-* in Chadic languages.

372. **fun-(H)-* ‘hole, opening, gap’: W 2 Ngas *fūŋ* ‘hole, opening, gap, window’ [JgN], Goem *fūŋ* ‘hole, opening’ [Hlw], Mghv *fūŋ* ‘hole, opening, tunnel, window’ [BLM], Mpñ (*m*)*fūŋ* ‘hole (in a vertical surface)’, Chip *fūŋ* [Kr], Mush *fung* ‘hole’ [JgO]; 7 Fyer *fūŋ* ‘hole’ [RC] (< W 2 ?); C 2 MrgC *fwàj* ‘hollow’; 3 FK *fáná-kú* ‘space on gum where teeth are missing’; 7 Muy *mà-fūŋ* ‘exit hole made by an animal’; 9 Mbara *vìŋ* ‘hole’.

//ECush **fanh-* ‘opening’ > ‘gap, space, interval’: Som *fanah* - ‘gap between front incisors’, Rend *fahan* ‘gap in upper teeth ridge’, Saho, Afar *fan* ‘space, interval’ [Ss: 38].

a. ****k-fun-*⁴⁴ > *vun-* ‘mouth’:** W 1 Hs *fāafungà* (compensatory redup. < **ka-funga*) ‘a hole, pot with a very wide mouth, toothless mouth’; 4 Cagu *vehe*, Diri *vəna*, Wrj *vina-həna*, Paa *vingi*, Siri *vəngi*, Mburku *vəŋhu*, Kar *vinahə*, Tsagu *vehe*, Miya *vun* [SkNB], Wrj *vina-* ‘mouth’, *vinah-* ‘in front of’ [BIS], Paa *vìngí* ‘mouth, side of’ [MS], C 3 Hya *fyiŋ*, *vyiŋ* [BlH]; 5 Pod *váywa* ‘bouche, orifice; bord’; 10 Masa *vùn* ‘bouche, bec, ouverture, extrémité’ [CC], Dzpw *vùn* ‘bec, bouche, entrée, gercule, bord de l'eau, bout, extrémité’, Dari *vūn* ‘bouche, ouverture, bout’, Peve *vūn*, Hede *vùn* ‘mouth’ [Shy], Gizey, Ham, Lew, Marba, Musey *vùn* ‘bouche, porte’, Lew, Marba *’avùn*, Gizey, Masa, Ham, Musey *vùn* ‘devant’ [LexC], Musey *vunna* ‘mouth, opening’ [ShyM], Azum *vuna* ‘mouth, opening, language, edge of hem’; E 5b MM, Kaj *fàn* ‘bouche’.

373. **far-* ‘to count, buy’: W 7 Kul *fàr* ‘zahlen’, Sha *’afàh* ‘das Zahlen’ [JgR], Sha *fàrú*, Mundat *fàr* ‘to count’ [RC]; C 7 Mada *áffàr* ‘consentir un surplus à un acheteur’, Ould *férfe* ‘supplément, prime, cadeau en plus’; E 4 Sok *éferee* ‘kaufen’, *éfergádi* ‘verkaufen’, *éfergo* ‘tauschen’ [Luk], Saba *’epare* ‘buy’ [DMT].

374. **far-* to be ill, exhausted’: W 1 Hs *fárá* ‘evidence of serious anaemia from whatever cause’, *faaràa-čee* ‘to become anaemic’; 3 Kupti *fòorò* (< *fwr*) ‘to become tired, exhausted’; 6 Ngz *fàrú* ‘to be sick’, *fàrá* ‘disease’, WBade *fàru* ‘to suffer from an illness’; E 5a Mig

⁴⁴ For the same pref. see W 5 Tala *ka-bi*; E 2 Nch *kwo-bə*, Lele *ku-b* ‘mouth’ in №18.

parâyò ‘être malade’, WDng *páriyà* ‘fièvre’, EDng *pàriyà* ‘le paludisme, malaria’.

Derived nouns: W 2 Ngas *farum* ‘fever’ [Or], *farm*, *fwarm* ‘cold in the head’ [Fl]; 6 WBade *féráán* ‘smallpox’.

//Berb Ahag *afri*, Wlmd, Ayr *efrey* ‘ressentir; être légèrement malade, souffrir’ [NZ: 649].

Cf. [TN №554 **Pr* (**p*/**b*) ‘sickness’].

375. *fur- ‘to descend, fall’: W 4 Siri *furu*, Cagu *fur* ‘to descend, unload’ [SkNB]; 7 Bok, DB, Kul *fur*, Fyer *fuł* ‘fallen’ [JgR], Monguna, Mundat *für*, Sha *fuú*, Karfa *fuur*, Mangar *fuy* ‘to fall’ [RC]; C 7 Mofu *-fər-* ‘lâcher involontairement, laisser tomber’. Cf. W 2 Ngas *fiir* ‘to throw on ground’ [JgN].

Deriv.: E 5b Mubi *faarādē* ‘to fall’ [JgIb].

//Sem Arab *fr*’ (a) 1.‘monter sur une hauteur’, 2. Contr. ‘descendre d’une hauteur’ [BK II: 578].

Cf. Eg **frfr* or **brbr* ‘to fall down’ with all possible cognates in [EDE II: 578f].

376. *fVr- ‘to scrape, itch’: W 1 Hs *feeriyáa* (East Hs) ‘scraping (esp. the surface of the ground)’; 2 Ngas *fiir* ‘scrape (calabash of porridge, with the fingers); to get grains out of the late guinea corn’ [Fl, JgN]; 3 Bol *pèeru* ‘scrape out inside of hollow obj.’ (cf. *pèereyà* ‘a v-shaped cut on a lip of a decorated calabash’) [GAB]; C 2 Bura *firwa* ‘to re-sharpen a pointed instrument’ [BLB]; 6 Baka *far* ‘frotter, gratter’ [YB], Mbedam *fəfər* ‘gratter’ [NdM]; 7 Mol *far* ‘to itch, scratch’ [FsM], Muy *āfār* ‘to scratch, cause to itch’, Mafa (*fa)fər-*‘se gratter’, Chuv *máfrēy* ‘frotter, gratter’, *méfēfərēy* ‘se gratter’, Mada *óffor* ‘démanger, to itch’, *ófforvà*, *frōh frōh* ‘se gratter’, Mofu *-fáfər-* ‘se gratter,frotter’, Merey *fəfar* ‘gratter’; E 5a Mig *pòrrò* ‘griffer’ > *pùrrùn* ‘ongle, griff’. Note E 4 Sok *firiŋ-firiŋ* ‘schreiben’ [Luk].

Deriv. in *-t-*: W 1 Hs *fárčě*, *fártà* ‘to scrape up soil’, *fárčí* ‘scraping the ground (eg. animal before defecating)’.

Deriv. in *-k-/g-*: C 10 Gizey, Masa, Lew, Marba *vìyòk*, Ham *vèèk*, Musey *vèrèk* ‘se gratter’ [LexC], Azum *vioka* ‘to scratch; scabies’; E 1 Kera *fèrgé* ‘jucken, démanger’.

//Sem Amh *farä* ‘to scratch, carve (wood)’ (also ‘to husk, to shell’), Berb Ntifa *ta-fura* ‘eczéma’, Wlmd, Ahag *ta-fuure* ‘maladie de peau’,

Snus *tfuri* ‘dartre’, etc. [NZ: 600]. Cf. SCush rift Irq *fura* ‘toothbrush’ [MQK], ECush Had *fur-š-* (caus.) ‘to rub off’ [Hds].

377. *fVr- ‘to spring, jump, fly’: C 2 Bura *fila* ‘to jump, fly’, *filwa* ‘to jump and land in the same spot as did the previous jumper’ [BlB], Klb *fələ* ‘to jump’ [MuK], Chb *fəlá* ‘fliegen’ [HfC]; C 3 FK *vällá* ‘to jump’; 5a Hdi *valay* ‘to spring up’; 6 Mina *fir* ‘to fly’ [FrJ]; 7 Ould *fər* idf. ‘sauter’; 8 Bud *fer* ‘springen, tanzen, fliegen, to jump, danse, fly’ [LkBd], Kus *vil*, Makari *fil*, Log *vil-wun* ‘to fly’ [Al].

Deriv.: ***fir- ‘top, up’:** W 3 Krkr *fiiri* ‘peak, top’ [GK], Dera *pórò* ‘up, upwards’ [NmK]; C 7 Mada *ávlà* ‘en haut, au-dessus’, 2 Lele *pīrīw* ‘en haut’.

Derived noun: C ***fVr- ‘flight’:** 7 Mofu *várr* ‘envol (d'oiseaux)’; 8 Kus *vilan* ‘vol, volée (d'oiseaux); flock (of birds)’, Makari *fale* ‘flight’ [Al].

Derived noun: ***fVr- ‘sky, God’:** W 3 Dera *púró* ‘sky’ [NmK]; C 10 Dari *fərè* ‘haut, ciel’ > *Yifəre* ‘Dieu’, Peve *fray* ‘sky’ [Vn], Mesme *afi?* (< *afir#) ‘sky’ [Kr]. Cf. 7a Skn *ma-far* ‘rainbow’.

//Cush Saho *fooro* n. ‘rise, upwards slope’ [Vr], Afar *fär* ‘hinaufsteigen’ [RA]; Om Wolt *fall-*, Dawro *fal-*, Gamu *per-edd-*, Dac'e *fir-add-*, Yemsa *ful-* ‘to fly’ (*-rr- > *-ll- > -l-) [LmW: 353]. Berb Ahag *e-feri* ‘aiguille rocheuse; pointed peak of a rock’ [NZ: 608], Maroco dial. *afurar* ‘endroit surélevé d'un champ’, also ‘crème (de lait)’: Rift *tafrirt*, etc. [NZ: 600], Nef *far* ‘voler’ [NZ: 599] [AA 1 №66 *fVr ‘go up’ (only ECh)].

378. *fVwVr- ‘to smear’: W 2 Goem *fwaar* ‘to smear, annoint’ (apud [TAS: 115]) [Hlw]; C 3 Bana *vərə* (v- < fw-) ‘oindre’; 10 Musey *fuura* ‘oindre d'huile’ [ShyM]; E 5a Mig *póoró* ‘enduire, oindre’.

Deriv. C 10 Azum *fri-dā* ‘to wipe the nose’.

Derived noun: C 8 Makari *mfrač'i* ‘coating, enduit’.

//Cf. Om Shin *fir-* ‘(ab) wischen’ [LmSh].

Common origin with №376. ***fVr- ‘to scrape, itch’** can not be excluded.

379. a. *fVr- ‘to dig (out)’: C 6 Daba *fár*; 7 Gavar *far* ‘déerrer’.

//ECush Som *farfaray* ‘dig (small holes’ [LIS].

For a deriv. cf. W 1 Hs *fárám* ‘gaping (of hole)’.

Derived verb: E 1 Kera *fərgì* ‘creuser’// Cush Bed *ferik-* ‘graben einen

Brunnen; ein Grab' [RBd]

b. C **vur-k-* ‘to dig (out)’: 9 Mlw *vùrgí*, Mbara *vùròk* ‘to dig out’, Mnj *vurgi* ‘ouvrir, creuser, arracher (tubercule)’; 10 Giz, Masa *vùròk* ‘fouir, creuser, bêcher’, Musey *vèk*, *vèrek* ‘bêcher, creuser’ [LexC], Musey *vekka* ‘gratter, creuser’ [ShyM].

CCh forms in the second set should be analyzed as derivatives in *-k-* from [**vur-* < **H-fVr-*] ‘to dig’. For a derived noun see C 5a Hdi *vəvərəm* ‘deep pit’ (compensatory redupl. < **Hvr-m* < *Hfr-m*) ‘deep pit’. A reliable cognate of Ch [**H-fVr-*] (attested only in derivatives) is Sem **hpr* ‘to dig’: Arab, Sab *hfr* ‘creuser (la terre)’ [BK II: 457, BII: 182], Hbr, Aram *hpr*, Akk *hapāru* [KB: 322].

380. **fVr-* ‘to move, run’: C 7 Muy *ferey* ‘to move’, *fār* idf. ‘running’. Deriv. in *-t-*: **fVr-t-* ‘to run away, to escape, to save os’: W 1 Hs *fārcè* ‘to run away’, *fīrcè* ‘to elude one’, *fīrtà* ‘to elude, escape’; C 5 Pod *fərətā* ‘échapper, escape’, Mlg *fārta* ‘retten; entrinnen; to escape, to save os’.

Note E 5a Mig *pàrsò* ‘échapper, chuter d'un arbre, to escape’.

//Sem Arab *frr* ‘e’efuir, se sauver; courir’ [BK II: 558], Ug *pr* (*prr*) ‘fliehen’ [Ais: 259].

For a root variant see: WCh 1 Hs *fällà* ‘to run away’; C 5 Pod *vála* ‘courir’//Sem Sab *fll* ‘flee in disorder’ [SD: 44].

381. **fVr-* ‘to blow, winnow’: W 1 Hs *fíurè*, *híurè* ‘to blow away’; 2 Bura *ferar* ‘to blow with breeze’, *ferr* ‘sound of a slight breeze’ [BIB]; 7 Gis *far* ‘to fan’; 9 Mulwi *firi* ‘vanner’, Mnj *fili* ‘vanner au vent’, cf. 7 Zlg *fàrfèr* ‘halete’.

//Cf. Cush Arb *fuur-* ‘become bloated’ [Hay].

Deriv. in *-t-*: W 1 Hs *fàrfàce* ‘re-winnowing’; C 5 ‘to blow’: Pod *fərətā* Mlg *fārta*, Gdf *vrta*, Gava, Chn *frta*, *vrta*, Glv *frt²ga* [HmG].

//Berb Ahag *efere* ‘vent présage de pluie’, Wlmd, Ayr *efare* ‘vent de mousson venant du sud-ouest’ [NZ: 608f].

Cf. [TN №491].

The following isogloss may derive from **fVr-* ‘to blow’ or from **fVr-* ‘dust’, cf. №383. **f[u]r-* ‘uncultivated area’ > ‘dust’, Sem *‘*af(a)r-*: ‘dust’:

a. **fifir-* (compens. redupl. < *HfVr*) ‘dust-devil’: W 2 Mghw *fí-vír*⁴⁵

⁴⁵ Accord. to TN №33, < AA **bubir*, cf. №274. *(*bV*)-*bVr-* ‘wind, storm’.

(< *fi-fir*) ‘tornado, dust-devil’ [BlM], Mpn *və-vir* ‘whirlwind’; C 7 Mol *vəvele* ‘dust-devil’ (< *fi-vir* < *fi-fir*) [FsO]; 9 Msg *fūlīlī* ‘Wirbelwind’ [LkM].

382. C **furi[y]-* ‘to love, to delight, be happy’: 9 Msg *fāra* ‘be happy; sich freuen’ [LkM], Miw *frīyī*, Mbara *frīi* ‘aimer’, Mnj *fīriyi* ‘plaisir, bonheur, aimer d’amour; joie, agrément’; 10 Musey *furi-ra* ‘réjouir, la joie’ [ShyM], Gizey *fīrū*, Masa *fū/īrīy*, Ham, Musey, Lew, Marba *fūrī* ‘bonheur, joie’ [LexC], Azum *furi-da* ‘joy’.

//Cf. Cush Saho *farhe* ‘to want, need’ [Vr].

383. **f[u]Jr-* ‘uncultivated area’: W 1 Hs *fārāa-farāa* ‘arid soil’; 2 Ngas *fur* ‘open space in front of the house, generally surrounded by a stone wall’ [Fl]; 6 Duw *fēra-k* ‘open barren area’; C 1 Boka *fur-tā*, Gbn *fīr-tā* ‘ground’ [Kr]; 10 Dzpw *fūr* ‘terre inculté’, Musey *fūl-nā*, Hesē *fur* ‘uninhabited and uncultivated land’ [Shy]; E 5 Mig *pāar* ‘terrain où l’herbe ne pousse pas’.

a. E 6 Mok *pūuré* coll. ‘dust’, *pūrūrū* ‘dusty, dirty’.

//Sem OffAram *pr* ‘dust’, pl. ‘plot, terrain’ [HJ: 879], Ug *pr* ‘dust; earth, ground, steppe’, Hbr *‘āpār* ‘dust, soil’, Akk *eperu* ‘earth, dust’ [DUL: 171], Arab *‘fr* ‘jeter qqn par terre et le rouler dans la poussière, rendre poudreux’ > *‘afar-* ‘terre, poussière’, *‘afr-* ‘poussière’ [BK II: 296f], Tigre *‘afär* < **‘apar-* [Kg: 189].

For cognates of Eg *β.t* ‘Staub/dust’ or ‘Vervünschung/curse’ see [EDE II: 553].

384. **fVr-* ‘bark, shell’: W 1 Hs *fiūrū*, *hiūrūu* ‘skin of monkey-nuts’; 3 Tng *paara* ‘skin of the locust -bean pod’; 4 Diri *fu-fur* ‘bark’ [SkNB]; E 1 Kera *ké-fré* coll. ‘egg-shell’; 6 Mok *pūrnyó* ‘écorce d’arbre sp. (pour soigner les diarrhées)’.

Derived nouns: ****fur-k-* ‘bark’:** C 7 Mnj *fotorok* (metath. < **t-forok*); 1 Kera *fekre* ‘harte Schale (bei Nüssen), coquille’ (metath. < **fVr-k-*); 4 Sok *furkia* [Luk], Ubi *pirika*, Mawa *purka* [HuJ].

Denom. verb: C 2 Bura *fira* ‘to pull out bits of lose skin’; 7 Mada *óvróm* ‘peler’.

//Berb Sened *ti-fre*, Ghdm *ti-fra* ‘écorce’ [NZ: 607]; Maroco dial. *afrekki*, Zng *tafərki*, Shilh, Ntifa *tiferkit*, Shawiya *taferkit*, Ahag *taferkit* ‘écorce’ [NZ: 626]. Note derivatives in *-k-* in Chadic and in Berber

languages. ECush Som *fur* ‘cork, cover’ [LIS].
[AA 1 №65 Sem ‘skin’, Berb + Diri, Kera, Sokoro, HSED №838. For
Sok, Kera cf. *prk].

385. *fu/ir- ‘flower’: W 1 Hs *furee* ‘blossom of tobacco’⁴⁶, Gwandara
hure [JgIb]; 7 Mangar *fure* ‘flower’ < Hs [RC]; C 5 Dghw *firá*; 8 Bud
*phōrío [JgIb] ‘flower’.
//Cush Beja *faar* ‘Blume, Blüte, Knopse’ (Sem Tgr *fr* id.) [RBd: 80],
Om Yemsa *fu’ra* ‘flower’ [BnO: 340].
Accord. to [AA 1 №35] and [EDE I: 111f], Ch ‘flower’ is cognate with
Eg *pr* ‘fruit, seed’. Note, however, that the correspondence: Ch *f- ~ Eg
p- would be irregular, to say nothing on the semantic gap.

386. *-fVr- (a derived noun?) > **vVr-** ‘(part of a) hut, granary’: W
4 Kariya *var*, Wrj *var-ai* ‘entrance hut’ [SkNB]; C 1 Tera *var kəbà*
‘wall (of a room)’ [NmT]; 2 Chb *før* ‘Hütte, Haus’ [HfC]; 5 Pod *vira*
‘chambre’; 6 Buwal *varvara* (compensatory redupl.) ‘courtyard’; 7
Mofu *ver* ‘chambre’, Mbuko *veray* ‘nouvelle maison’; 9 Mgs *furai*
[LkM], Mnj *vre* ‘grenier’; 10 Masa *vire* ‘grenier’ [CC], Gizey, Lew
vér, Masa *vér*, *fér*, *fré*, Ham, Musey *vée*, Lew, Marba *’avír* ‘grenier à
mil’ [LexC], Musey *veena* < *ver-na* (compens. lengthening of a vowel)
[ShyM], Azum *avira* ‘a small silo, granary made in a shape of a bottle’,
avirâ ‘a large granary’, *avirî-na* pl.

387. *fVr-(t/n)- ‘finger’: E 5 WDng *pérné*, EDng *pēernò*, Mubi *fèeri*
[JgIb] ‘finger’. Cf. W 3 Bol *paala* ‘finger’ [Kl].
Deriv.: ***fVr-t/d- ‘finger, nail’:** W 1 Hs *fárčè*, pl. *fáràutaa* ‘fingernail,
finger’; 6 Duw *vàre-d*, GBade *vàrà-d* ‘fingernail’; C 5 Wnd *fali-d-še*
‘nail’ [Kl]
//Cush *pVr- ‘finger’: Afar *fera* [RA], Saho *fera*, Som *far(-ta)*
‘finger’, Rend *farro* ‘finger, toe’ [PR], Boni *far* [Sam], Bayso *per*,
Kamb *far* ‘finger’ [Dolg: 41f].
[ISv: 21].

388. C *far- ‘cattle, wealth’: 9 Mbara *fàrày* ‘bride's wealth’, Mnj
faray ‘prix, richesse, troupeau, betail’; 10 Masa *fàri* ‘richeuse, dot’

⁴⁶ The following forms are Hausa loans: W 3 Krkr *fire* ‘tobacco blossom’, 4 Paa
pure, Miya *füré*, Diri *fürée*, Mburku *púréé*, 5 Guus *pùer* ‘flower’, cf. [JgIb I: 146].

[CC], Gizey *fòrèy*, Masa *fàrèy*, Ham *fàriy* ‘richesse, biens’ Gizey *frèy*, Masa *fàrèy*, Ham *fàri* ‘animal domestique’ [LexC].

This ch root is hardly cognate with Sem **parr-* ‘young of small or large cattle’, as suggested in [SED II, №181].

For Mbara, Mnj, Masa < AA **br* see [TN №175].

389. W **fir-* (**fVyVr-*) ‘big’: 2 Ngas *fier* ‘largeness’ [Gr], Mush *fir* ‘bigness’, *kú-fiir* ‘big, large’ [JgO], Goem *firr* ‘great’ [Fp], *fyer* ‘to be big’ [Hlw].

a. **fir-* ‘to overtake’: W 3 Dera *pèrí* ‘to overtake (a person)’ [NmK]. Cf. W 1 Hs *fártòo* ‘a big, strong fearless man’.

For a possible cognate cf. C **fir-* ‘crowd, many’: 6 Bana *v(ə)ràm* ‘foule debout ou en marche’; 9 Mnj *fara, firi* ‘foule’; 6 Buwal *vra-m* (**fr-* > *vr-*) ‘many’; W 1 Hs *fàràrà* ‘in immense numbers’.

//Sem Arab *fariyy-* ‘grand’ [BK II: 589].

*P

390. *p(Vw)ay[?]- ‘to pay, give’: W 2 Mnt *pèè* [JgC], Mush *pí* [JgO] ‘to give’, Goem *p^há* ‘to give someone smth’ [Hlw]; C 3 Bana *pá* ‘acheter’; 5 Pod *pa* ‘to take, give’, 6 Mina *pá* ‘to give’ [FrM]; 7 Mafa *pa* ‘mettre, donner’ (pl. obj.); 10 Dari *pō?* (< *paw²-*) ‘payer, rembourser’, Dzpw *pō?* ‘acquitter une dette; payer’; E 2 Lele *pōy* ‘rembourser’.

Cf. W 4 Miya *piyay* ‘to take back, return’ [Sch]; C 7 Gis *paw* ‘wegnehmen, to take back’. Note that terms for ‘to give’ and ‘to receive’ are confused in Geez.

//Sem Geez *wfy* ‘receive, grant, transmit, hand over, deliver, transfer’, Sab *wfy* ‘pay a debt’, Soq *'efe* ‘pay, Tna *'awäfäyä* ‘give, make a gift’ [LsG: 607], Arab *wfy* ‘payer, acquitter (la dette)’ [BK II: 1578].

391. *pV²/w- ‘to cover, protect, hide’: W 2 Ngas *pee* ‘to shut, close’ [Fl], *pee* ‘to close, shut, cover’ [JgN], Mghv *páa* ‘to cover, close, shut’ [BIM], Mpñ *páa* ‘to cover; to bury’, Mush *páa* ‘to cover’ [JgO]; 4 Paa, Jmb, Mburku, Tsagu *pu(w)-* ‘to hide’ [SkNB], Paa *pu*, *puvíi* ‘to hide o.s.’ [MS], Miya *puwa* ‘hide’ tr., intr. [Sch], 7 Fyer *pa* ‘to shut, close’ [RC] (? < W 2); C 2 Bura *pua* ‘to cover with grass against weather’ [BLB]; 4 Gude *pa²a* ‘to close, cover’; 7 Mada *ápá* ‘(re)couvrir, mettre’, Mofu *-piy-* ‘protéger le mur d'une natte, (se) protéger’, Ould *-pàb* ‘couvrir’, Baka *pàvu* ‘fermer’ [BAS]; 10 Dari *pīē?* Dzpw *pé?* ‘(se) cacher’.

Derived nouns: W 1 Hs *fáifái* ‘circular mat or tray used for covering vessels’ > W 2 Mghv *pyepye* ‘flat cover for calabash’, //SCush Qwadza *pa²-* ‘to cover’ [Eh: 143], Berb Ntifa *nfi* ‘être caché, abrité’, Wlmd, Ghat *ifi*, Ahag *éfi* ‘abri’ [NZ: 682].

Cf. TN №457 (including metath. forms in Sem & Eg).

392. *pV²/w/y- ‘to shoot, sting’: W 2 Kupto *fèyéy* ‘to shoot, sting, kick, spin’, Tng *peyi* ‘to kick, shoot’, cf. Krkr *fì²yu* ‘to pinch’ [GK]; C 2 Bura *pwa* ‘to strike (in shooting)’ [BLB]; 4 Gude *pá?* ‘hitting of arrow’; 7 cf. Ould *píyūw* idf. ‘coup de bec’; E 5a Mig *'úppó* ‘to strike, shoot (arrow and bow, fusil)’.

Cf. C 7 Mada *pàwpá* ‘sagaie’, W 3 Bol *píu* ‘awl’ [GAB].

//SCush Dah *pah-* ‘hit, shoot’ [EEN], rift Irq *pa^c* ‘sound of sudden shooting out, for example a stone leaving a sling’ [MMQ]. For Tng-Bura-Dah see [TN №379].

393. *p/a/w/y/- ‘to cut, split’: W 1 Hs *fāa-fā* (Kats. *h^wah^wa*) ‘to split open a gourd’, deriv. *fau-taa* ‘to cut up meat for sale’; C 7 Mbuko *paway* ‘to cut meat in pieces’, Muy *ápawāy* ‘to split into pieces’; 8 Bud *phhayu, fayú* ‘schneiden, umhauen’ [LkBd], *fayú* ‘couper’ [Awg]; 10 Masa *pòò* ‘couper en quartiers’ [CC]; E 1 Mobi *paye* (pl.) ‘casser’; 2 Lele *pōy* ‘casser beaucoup’.

Derved nouns: W 1 Hs *fāawā* ‘the work and profession of a butcher; cutting of animal’s mouth by a bit’, 3 Bol *pe??e* ‘Schröpfen’ [LkB], Tng *pawa* ‘act of slautering’.

//Sem Arab *f^wy* ‘fendre, pourfendre d’un coup de sabre la tête de qqn’, *fa^waw-* ‘fente, brèche’ [BK II: 530f], Hbr *p^yy* ‘to cleave, split’ [KB: 749]. Note 6 Mok *pówwò* ‘crevasse, trou (dans un arbre)’ as a possible arabism.

For a metath. cf. 5a WDng *òpè* ‘couper en deux’, EDng *òpē* ‘fendre le bois’ (< *[?]*wp*).

/Eg *wp* (gr) ‘zerteilen, zerstückeln’, *wp* (Nä) ‘Messer oder ähnl. Werkzeug aus Kupfer’ [EG I: 302].

The following isogloss is rather cognate:

a. C ***pay-/pVy- ‘to harvest’:** 7 Mada *pày* ‘(moissonner) à coups de fauille’; 8 Log *pia-wun* ‘to cut; harvest’, *tun a pia-wun* ‘harvest’ (n.), Kus *pia ho* ‘to cut’ [Al];

394. *pVy/w/- ‘to pour’: W 3 Gera *fīū-mí* ‘to pour’ [SchB]; 6 GBade *po* ‘to pour, empty out, pour out or put down several objects or a liquid’, WBade *po* ‘to pour, empty out’, Duw *pūwo* ‘to pour’, Ngz *páu* ‘to pour’; C 2 MrgC *pwá* ‘to pour in’, Mrg *pù* ‘to pour’ [HfM: 25], Bura *pu* ‘to pour’ [BIB]; 5 Mlg *píwa* ‘giessen, strömen’; 7 Gis *pi* ‘(hin)eingiessen’, Dugwor *má-páy* ‘verser’, Mofu -*p-* ‘pleuvoir’, Zlg *píwíuw* ‘verser, répendre un liquide au loin’; 8 Makari *pe he* ‘sprinkle’ [ALM]; 9 Mlw *púwí* ‘puiser dans la marmite où est cuite la boule pour en servir les parts’; 10 Musey *po-ra* ‘verser’ [ShyM]; E 3 Tum *pè* ‘verser (remplir)’.

Derived noun (or a remote cognate): C 7 Mofu *piyá* ‘rainy season’; 9 Msg *piá^c*, *afiia* (**pVH* > *fV*, see №№402, 405) [LkM], Mbara *piyà*,

Mnj *piya* ‘rainy season’; E 1 Kera *pépé* ‘Gott, Regen, Donner’. //HEC **fo’o* ‘waterfall’: Had *fo’o*, Kamb Sid *fo’a* [Hds], Beja *fi/uf* ‘aus-, vergießen, ausschütten’ [RBd], Arb *fo?*- ‘overflow’ [Hay], Berb **fy*: Shilh *ffi* ‘réprendre, être, verser, étrw, s’écouler’, Ntifa *ffi* ‘verser’, Ahag *effi* ‘verser (dans qqch), couler’, Snus *effiy* ‘verser (du thé, du café), Izns *effey* ‘transvaser, verser (liquide)’, Wlmd, Ayr *effey* ‘verser, couler (liquide)’, Ghat *effi* ‘verser (dans un récipient)’ [NZ: 681]. Cf. [TN №452 **pVh*].

395. **pW/y-* ‘to breathe, blow; wind, breath’: W 3 Pero *píyò* ‘to blow; wind, air’, Kupto *fíuu-tá* ‘breath’; C 1 Tera (dial.) *piya* ‘to blow’, *pi-di* ‘wind’ [Kr]; 3 Bana *píy* ‘aspirer, vivre’; 4 Gude *pui* ‘to blow strongly’; 10 Dzpw *pé* ‘respirer’ (for Dzpw *fó’ó*, Dari *fō?* ‘souffler’ see №290).

//SCush Bur *pupu’iya* ‘wind’, Alg *pupu’umis* ‘to flap, flatter (in wind)’ [Eh: 145]. Cf. Om Yemsa *ipuwa* ‘Sturm’ [LmY].

a. C **pV-* ‘to swell’: 3 Bana *pà* ‘gonfler, enfler’; 5 Pod idf. *pəvəva* ‘très gonflé’. Cf. 4 Gude *pəháb* ‘very swollen’.

b. **pVy-* > **pVh-* (pl. in *-h-*): ‘to winnow’: W 3 Kupto *fíiyéy* ‘to separate corn (by the blowing wind)’; C 2 Bura *puha* ‘to winnow grain’; 3 Bana *pxá* ‘vanner’; 5 Pod *pava* (compens. redupl. <*papa* < **paha*)

Derived noun: W 3 Bol *puuyò* ‘remnants of grain husks after sifting’.

//Sem Akk *pû* (*pa’u*, *pu’u*) OA, OB ‘chaff, husks (of grain, plants), straw, stubbble’ [CAD p: 471]. Cf. Sem Akk *nápû* (OB) ‘to sift’ [CAD p: 327], Geez *nafaya*, Aram *nəpā* (*npy*) ‘to sift’, Tna *näfää*, Amh *näffa*, Tgr, Harari *näfa* ‘to sift’ [LsG: 390], Arab *nafa?* ‘brins de plantes, d’herbes’ [BK II: 1303], Sem **npy* ‘to sieve’ [Kg: 342], Berb Shilh *afuf*, Maroco dial. *afif*, *ifif*, Qab *ifif* ‘être tamisé’, Izns, Ntifa *siff*, Sen *sif* ‘cribler, tamizer’, *sifef* ‘tamiser’, etc. [NZ: 512]. For Akk see [TN №521].

396. **pW(V)-* ‘to tear (off), pull’: W 5 Zaar *pwaa* ‘to pull sharply’ [CrZ]; C 4 Gude *pàwù* ‘tearing of cloth’; 7 Mofu *-puw-* ‘dépecer, déchirer, dépouiller’; E 1 Kera *pi* ‘enlever’, Mobu *pe* ‘enlever’, Ngam *pée* ‘arracher, déshabiller’; 2 Kaba, Nch *ba-puwa* ‘tirer’ [HmK].

a. C **pah-* ‘to peel’ (pl. in *-h-?*): 4 Gude *pwa’a* ‘to remove bark’; 7 Mada *ápah* ‘écorcher, raceler’, Mafa *páh-* ‘écorcher, enlever’.

- b. C **pVhVw*- ‘to pull, tear off, untie’ (pl. in *-h-* ?): 6 Daba *pōh* ‘arracher’; 7 Mafa *puh^w*- ‘tirer’, Ould *pūh^w* ‘se détacher’, Zlg *páhá* ‘détacher, ôter ce qui attachait’.
Deriv. in *-k-*: C 5 Pod *pəh^wakə* idf. ‘enlever qqch qui est attaché’; 6 Buwal *pōh^wòk^w* ‘to pull away’.

397. **pVy*?- ‘to walk’: C 7 Mnj *payay* ‘promenade’; 10 Masa *pày* ‘se promener’, Musey *póy*, Gizey *túd'póy* ‘promener’ [LexC]. Cf. Dari *pā* ‘sortir’.

//Cf. Eg *py* ‘sich begeben’ [EDE II: 414].

a. **pVy*- ‘to arrive, return’: W 4 Miya *piya* ‘to return’ [Sch], Diri *piya*, Kar *piy-* ‘to return’ [SkNB], Wrj *pøy* ‘come back, return’, *pyiyi* ‘coming back, return from a journey’ [BlS]; C 5a Hitk *piy-* ‘treten’, 5 Pod *pavá* ‘to arrive’; 6 Buwal *páy* ‘(to be) arrived’.

//Sem Arab *fj*? ‘retourner, revenir’ [BK II: 651] .

398. **pVy*?- ‘to dig, bury, (trans)plant’: W 2 Mpn *páa* ‘to cover; to bury’ (reflexes of Ch ‘to cover’ & ‘to bury’ are confused in Mupun); 4 Wrj *pya-*, Siri *pyaa*, Kar *peya*, Paa *pi* ‘to (trans)plant’ [SkNB]; C 8 Zina *pàyà* ‘to bury’; 9 Mlw *pì*, Mnj *pi*, Mbara *pàa* ‘enterrer, planter’, Msg *pa* ‘begruben’ [LkM]; 10 Masa *pì* ‘planter, enterrer, repiquer’ [CC], Dzpw *pé* ‘planter’, Dari *pāy* ‘déterrere’, *pīē* ‘planter; Gizey, Masa, Ham, Musey *pí*, Lew, Marba *pé* ‘planter’ [LexC]; E 1 Ngam *pée* ‘creuser’; 2 Lele *pē* ‘creuser, déterrere’.

//SCush Qwadza *po'otis-* ‘to dig (hole)’, Alg *po'o* ‘hole in the ground’, *po'is-* ‘to bore hole’ [Eh: 148].

a. **Vp(p)*- ‘to dig out’ (plurac.): W 3 Tng *ope* ‘to dig out’, Bol *?opp-* [GAB], Krkr *àfā* [GK], Krf *?opp-* ‘to dig’ [St], Kupto *?oppéy* ‘to dig, to drill, to excavate’ [LgK]; E 4 Mawa *opoŋ* ‘évider, creuser (puits, trou), enterrer’, Ubi *?òpi-n* [Alio], Sok *ápè* ‘dig’ [Jglb], note Saba *?apke* ‘to burry’.

[Jglb *-*p*- ‘to dig’].

399. **pa*?-/HVp*- ‘to sweep’:** W 4 Wrj *pəpə* (< **HVp*, compensatory redupl.) [BlS], Paa *pei* [MS] ‘to sweep’; 5 Zaar *paa* ‘to scoop out the surface of liquid in order to clean it’ [CrZ]; C 3 Bana *pà* ‘balayer, ramasser’, FK *mpà* ‘to sweep’; 10 Dari *pó'ó* ‘brosser, nettoyer avec une brosse’; E 1 Kera *pé'é* ‘enlever la poussière avec une branche’. Cf.

C 5 Mlg *púwa* ‘schreiben’.

//Sem Arab *fw* (*u*) ‘effacer (l’écriture, etc.)’ ‘Le vent a effacé les traces...’ [BK II: 304], Cush Sid *f-* ‘to sweep’ [KS : 44].

The following root may cognate (cf. reflexes in C 10):

a. ***pVw-** **‘to clear land for farming’**: W 1 Hs *fàa-faa* ‘to clear a large tract of uncultivated ground for farmimg’; 10 Gizey, Masa, Ham, Lew, Musey, Marba *pó* ‘débrousser’ [LexC], Masa *pò* ‘débroussailler, défricher’ [CC], Musey *po-ra* ‘nettoyer le champs avant de le semer’ [ShyM].

400. W 4 *pa- **‘to gather’**: Wrj *pa* ‘to gather, join, meet’ [SkNb, BlS], Miya *pa*, pl. *pàhiy* ‘to collect, gather’ [Sch], Paa *pá* ‘to gather’ [MS]; C 3 Bana *pà* ‘balayer, ramasser’ (reflexes of Ch ‘to sweep’ & ‘to gather’ conflated in Bana).

a. ***pVw/y-** **‘many, all’**: W 2 Ngas *peep* ‘all, whole’ [JgN]; 3 Tng *pip* ‘all’; C 2 Bura *pwapwa* ‘all’ [BlB]; 7 Mina *pè* ‘much’ [FrJ]; 7 Mada *pày* ‘tout’, cf. Muy *pāy* idf. ‘appearing totally’; 8 Log *piya* ‘many’ [AIL]; 10 Azum *pappa* ‘all (absolutely)’; E 3 Smr *píiya* ‘alles, alle’ [Luk]. Cf. W 3 Bana *pàfá* ‘plein’.

//Cf. Sem Arab *wfy* ‘être abondant, complet’ [BK II: 1578].

Cf. TN №332 **p(p)*, № 378 **ph*, №522 *PP.

401. C *(m)pa(?)- (**< *mVpV²-**) **‘to fight’**: 2 Bura *mpa* [BlB], MrgC *mpà*, Klb *pà* [MuK] ‘to fight’; 3 Bana *pá* ‘faire la guerre’, FK *mpá* ‘to fight’ [BlFH], Hya, Kap *mpha* ‘war (fight)’ [BlH]; 4 Gude *pa* ‘to fight’, *pə'u* ‘to kill many people, animals’.

//Sem Arab *nfh* (*a*) ‘atteindre qqn légèrement avec un sabre, ne lui faire qu’une égratignure’ III ‘lutter avec qqn, combattre qqn’ [BK II: 1305]

402. *pa²y-, *?apaVy- **‘milk, female breast’**: W 4 Paa *api*, Siri *ipi*, Diri *yapu*, Jmb *ifi*, Kariya *api*, Mburku *pii-hu*, Tsagu *iipə-n* ‘breast, milk’ [SkNB]; Wrj *pii-na* ‘breast, milk’, *pyi-na* ‘sour milk’ [BlS], Miya *ápíy* ‘breast, milk’ [Sch]; C 7 Mbuko *páy* ‘sein, lait’; 9 Msg *fiau* (**pV²* > *fV²-*, see №394) [LkM]; 10 Dari *pā?* ‘sein’, Dzpw *pa?* ‘lait, sein’, Azum *apo-na* ‘the breast, human milk’, Masa *pò* [CC], Musey *po-na* ‘sein’ [ShyM], Lew, Marba *ápó*, Ham *mbò* ‘sein’, Gizey, Masa *pòpò* ‘sein des animaux’ [LexC], Masa, Musey, Marba, Peve *pā?*, Hede *pa?*,

Zime *pa* ‘breast’ [Shy]; E 4 Sok *paió* ‘Milch’ [Luk], Ubi *paawò* ‘milk’, *pay-nà*, Mawa *payi* ‘sein’; 5a Mabire *pay* [HuJ], (Lallwort) Mig *píupú* ‘sein’, WDng *pòopìy*, EDng *póopí* ‘le sein, la poitrine, la mamelle’, 5b MM *fàafé*, Kaj *fàafè* ‘lait’, *fàafò*, Brg *fiifò* ‘sein’.

//For cognates of Eg *ph* ‘Euter’ see EDE II: 491. Cf. Berb Shilh, Fig, Ntifa, Mzab, Qab *iff*, Ghat, Sened *ifeñ*, etc., ‘sein, mamelle’ [NZ: 508f]. Note WCh *ron* gr.: Fyer, Kul *fuf*, Bok *fof* ‘breast’ as possible Berber loans.

Cf. Sem Amh *fäyä* ‘to suck the breast, to drink milk’, gurage gr. Muher *fw-at*, Soddo *aa-fa-t*, Gogot, Gafat *a-fwa-t* ‘milk’. Accord to [AA 1 №53], Ethsem forms are cognate with Berber and WCh *ron*.

403.pVw-* ‘gigel, meal’:** W 3 Kupto *fòo* ‘food, tuwo’; C 2 Bura *mpwa* ‘flour, meal; balls of guinea corn and peanut flour, wrapped in leaves & boiled’; 7a Skn *powa* ‘millet flour (dry or mixed with water as thin gruel’ [DS], *pwa* ‘powder’ [ThS: 43].

a. ****pVy-* ‘to eat (soft)’:** W 3 Pero *púyò* ‘to eat up’; 5 Wnd *piya* ‘to graze’ [Voc]; 7 Vame *piya* ‘manger’, Mbuko *pa* ‘manger (mil)’, cf. *āpā* ‘fourrage’.

//Cf. Eg *pw* 21 ‘Opferspeisen’ [EG I: 506]. For a part of Ch forms see TN №384 **p[‘]* ‘to eat’.

404. **pay-* ‘kind of net, trap’: W 1 Hs *fáifái* ‘part of a net or snare’; C 10 Masa, Musey *pày*, Lew, Marba *pèy* ‘nasse à poisson’ (= ‘chambre de capture’ ?) [LexC: 38], Azum *pai-na* ‘a fish trap, in course of constructing’, *pai-da* ‘a fish trap, in place’.

Any relation to №391. ****pV?w-* ‘to cover, protect, hide’?** Note that terms for ‘mat, cover’ and ‘part of a snare’ are confused in Hausa.

405. **pV?wVy-* ‘field, earth’: W 3 Pero *péepè* (compensatory redup.) ‘earth’; cf. Bol *puuya* ‘courtyard of a compound’ [GAB]; 7 Sha *pyà* ‘best Land, weicher Erde’ [JgR]; C 3 FK *pwày* ‘field’; 9 Msg *fòwáï* (**pV?Vw-* > *fVw-*, see №394) [LkM], Mnj *vuway* ‘champ, jardin’.

For a root-variant see the next isogloss (note that both roots are attested in C 3 FK).

a. C ****pV?Vw-* ‘field, plot of land’:** 3 FK *pwìyày* ‘plot’; 5 Pod *vúhwa* ‘champ’ [Mo:19]

//Cf. Eg *ph’ .t* [if=ph?] Nä ‘Art Acherland’ [EG I: 544].

406. *paw-p- ‘kind of tree’: W 2 Goem *papai* ‘a type of tree’ [Hlw]; 6 Duw *pòopo* ‘the trees Crateva religiosa’; C 2 Bura *puba* ‘tree’ [BlB]; 6 Mbedam *mpay* [NdM], Mina *pày* ‘tree’ [FrM]; E 1 Ndam *pāy* ‘brousse’.

//Sem Geez *fewā* ‘dark wood’, (T.K.) ‘rotten log or name of a tree’ [LsG: 172].

407. *pap- ‘shoulder (blade)’: W 3 Bol *pappà* ‘shoulder blade’ [GAB]; C 6 Daba *pàpá* ‘la plume’, Mbedam *púmpa* ‘wing’ [LMb]; 7 Ould *pēpē* ‘omoplate’; 8 Kus *papa* ‘shoulder’ [ALK]; 10 Dari *pəpá?* ‘omoplate’. Compensatory redupl., cf. CCh ***hVp-** ‘shoulder’: 5 Glv *áhyepa* ‘shoulder’; 7 Mada *ahpá-t* ‘épaul’.

408. C *pa?Vw- ‘cotton (thread)’: 2 Bura *powa* ‘cotton’ [BlB], Klb *pàwà* [MuK]; 7a Skn *pa?wa* ‘cotton thread’ [DSk], *pa?wa* ‘cotton’ [ThS: 23]. Note 3 FK *páw* ‘shirt’.

May be cognate with ***pVy/w-** ‘white’.

409. C 10 *(pV)pay?/- ‘rib(s), side’: 10 Lew *pèpèy*, Marba *pipey* ‘côtes’ [LexC], Musey *pay-na* ‘la côte, le côté’, *pay* ‘à côté de, près de’ [ShyM], Azum *papei-na*, ‘ribs’.

//Sem Geez *fe* ‘to this side’, Hbr *pe?ā(h)* ‘side, edge’ [LsG: 154].

410. *pVy/w- ‘white’: W 2 Grk *pya?* [JgC], Ngas *pée* ‘to become white, bright’ [JgN], Mghv *pyáa* ‘to be white, fair, clean’ [BLM], Mpñ *pyá*, Mush *pyáa* ‘to be(come) white’ [JgO], Chip *pìya* [Kr], Mnt *pia* [JgC], ‘white’, Goem *pyá* ‘to whiten or clean smth, to become white or clean’ [Hlw]; 3 Kupto *fèe*, ‘white’, Tng *pee* ‘blank(ness), white(ness)’, Gera *feewà* [SchB], Krf *feewa* ‘white’, *feewu tar* ‘moon-white’ [Stl], Pero *pé* ‘white, light’, Bol *pee* ‘white’, *pee-tire* ‘moonlight’ [Bn], *pee-tire* ‘full moon’ [GAB], Maka *pée* ‘white’, Bure *pèewà*; 4 Wrj, Kar *pyau-naa* [SkNB], Miya *pyòoya* ‘white’ [Sch]; C 3 Bana *pay* ‘blanc’, 4 FJ *pwà-yin* ‘white’ [Kr], Gude *pwáh* ‘very white’; 8 Log *paw* ‘be white’ [AIL], Kus *pow* ‘be white’ [ALK].

a. ***pay-t-** ‘white’: W 2 Mghv *pétpét* ‘intensifies white’ [BLM]; 6 Duw *peet*, Bade *peetà* ‘white’, Daba *pátpát* ‘clair’.

b. ***pa(wV)-k-** ‘very white’ (pl. in *k* ? or fem. n *-t-* (see above), mask. in *-k-??*): W 3 Bol *pok* idf. ‘whiteness’ [GAB]; 6 WBade *pakpaka* idf.

indicates whiteness; C 2 MrgC *pwákù* ‘snow white’, Bura *pwak(u)* ‘very white’ [BIB]; Cf. E 1 Kera *pəkay* ‘sorgho sp., mil blanc’.

//SCush rift Alg *poy* (idp) ‘very white or grey from dirt’, Bur *poy* ‘very white’ [Kies], ECush dull Harso, Dob *pi^{wa}a*, Goll *pi^{wa}a* ‘weiss’ [AMS]⁴⁷. Cf. Sem Arab *fūf-*, *fawf-* ‘tache blanche qui paraît aux ongles chez lez jeunes garçons’ [BK II: 647].

411. *pVd- > pVd- (dissim. of polosives) ‘to make a hole’: W 2 Hs *h/fiudà* ‘to pierce, bore hole’; C 10 Azum *pedā* ‘to plant by making a hole, to make a hole with a stick’

Derived noun: C 7 Mol *pəde* ‘hole’ [FrO], Baka *pidi* ‘trou’ [BAS]. //Cf. Ethiosem Harari *fuddi*, Gur *fodo* ‘anus’ [LsG: 162] (if not < *fnd, see №524).

412. *pVd- > pVd- ‘to cut’: W 3 Tng *pide* ‘to cut open, sting, puncture a boil’; C 5 Pod *pide* tailler, éplucher; 7 Mada *épde* tailler, évider, éplucher, Mofu -pádw- ‘partager en coupant, fractionner’; E 1 Mobi *pade* ‘cueillir; couper (fruits)’.

Derived noun: W 3 Pero *pídà*, *pídà* ‘wound’// Cush Beja *fade* ‘die Narbe’ [RBd].

Deriv. in -k-: C 6 Mina *pèdák* ‘to split’ [FrJ], Mbedam *padaku* ‘fendre’ [LMb], Buwal *pədak* ‘to slice’, Gavar *pədok* ‘trancher’; 7 Mofu -pádk- ‘fendre, séparer, tatouer’, -pádk^w- ‘(se) blesser, se couper, percer’, Chuv *mépədékèy* ‘fendre (bois)’, Mol *pədakay* ‘to chop’ [FsM].

Cf. E 5a Bid *pídany* ‘ouvrir la ventre d'un animat tué à la chasse; opérer’.

Derived noun (or a loan): C *pVdVk- ‘razor’: C 4 Gude *pídək^wá* ‘type of razor’; 6 Buwal *pədék^w* ‘razor’; 7 Mol *pedewk* ‘razor’ [FrM], Mafa *púdék^w-* ‘lame de rasoir, en fer’, Mofu *pədek^w* ‘rasoir’, Zlg *pédék^w* ‘hache’; 7a Skn *pidoek^w* ‘razor’. Cf. CCh **pídak^w* ‘rasoir’ [GrR].

413. *pVd- > *pVd- ⁴⁸ ‘to skin, to cork’: W 1 Hs *féedà* ‘to flay, skin, draw a fowl’; 3 Pero *póddò* ‘to peel (yam, potato)’; 6 Daba *pəd* ‘arracher, enlever qqch’; 7 Mofu -pádw- ‘s'écorcher’; 9 Mlw *pídī* ‘peler, éplucher avec un couteau, une hache’, Mbara *píd* ‘to polish’; E 5a Mig *pídaw* ‘éplucher’.

⁴⁷ For dullay < AA *b^c ‘white’ see [TN №120].

⁴⁸ Dissim. of plosives, note -d- in cognate forms.

Cf. C 5 Pod *pide* ‘tailler, éplucher’; 7 Mada *épde* ‘tailler, évider, éplucher’. Reflexes of two independent roots conflated in these languages (see the previous root).

//ECush Som *feyday* ‘take off covering or clothes, strip of’ [LIS]. Berb Ahag *fadey* ‘être écorché, s’écorcher’, Wlmd *fudi* ‘être écorché au dos’, etc. [NZ: 530].

The following isogloss is cognate:

C **pVd-* ‘to brush, sweep’: 7 Muy *pādādā* ‘cleared, swept’, Zlg *pād* ‘ôter une liquid en passant qqch’; 10 Azum *poda* ‘to brush, dust off’.

414. **pVd-* > *pVd-* ‘to pull out, remove, extract’: W 3 Krkr *fādū* ‘take out, remove, undress’ [GK], Bol *podū* ‘to take out, remove’ [GAB], Kupto *fōdēy* ‘to remove anyth, pull of’, Tng *podi* ‘to take (out), pull out, detach, choose, select’, Dera *pōrī* ‘to take out, pluck out’, pl. *pōdē* [NmK], Pero *pūdū* ‘to extract’, *podō* ‘to pick out a thorn, dig clay’, Gera *fād-mí* ‘to remove; pull out’ [SchB]; 5 Grnt *poodī* ‘to tear’ [Hr]; 6 Duw *pīdo*, GBade *pīdū* ‘to draw, pull out’; C 6 Musgoi *pād* ‘dépouillir’ [Mo: 24].

Pluract. **pVdd-*: W 3 Kupto *fōddēy* ‘to pluck (only cotton)’; E 5a Mig *pīddō* ‘pincer’.

Derived verbs: a. E 5a Bid *pedēč* ‘récolter des arachides’, Mig *pīdīčō* ‘cueillir des feuilles une à une’; 6 Mok *pēdīsē* ‘extraire qqch du corps (une épine)’.

b. E 5a **pīdīk-* > *pītk-*): EDng *pīt/dkē* (*nō pīdākī*) ‘arracher’, WDng *pētkē* (<*pēdīkē*?) ‘arracher, arracher un bouchon de terre’.

//Sem Arab *nfd* VIII ‘tirer, extraire’ [BK II: 1306].

415. **pVHd-/pVdd-* > *pVd-* ‘to dig, bury’: W 1 Hs *h/fūudā* ‘to bank up (growing corn), make ridges for sowing potatoes’; 3 Kupto *fūudēy* ‘to ridge up’; 5-5a Lmn *pada*, Vemgo *pado*, Gvoko *padūbe* ‘to bury’ [HmG]; 7 Chuv *mēvēdēy* ‘déterrir’.

416. **pVd(d)-* > *pVd-* ‘to pour out; rain’: W 4 Paa *pūda* ‘to pour out’ [MS]; C 2 MrgC *pādō* ‘to rain’; 6 Mok *pīdē* ‘cracher’.

Deriv.: C 3 Bana *pādāmā* ‘couler très fort (d'une rivière en saison de pluies)’, cf. W 1 Hs *fādamā* ‘land which is flooded in the wet season’.

a. E 5a **pVdVy/w-* ‘rainy season’: Mig *pīdīwāy*, Bid *pude*, WDng *pūdiyā*, EDng *pūdiyā*; 5b Brq *fīdī* ‘la saison des pluies’.

//Cf. Sem Arab *fyd* ‘humecter, mouiller’ [BK II: 652].

417. *pVdVH- > *pad- ‘**to grind**’: C 5 Pod *pəða* idf. ‘taper, cloquer’; 6 Daba *pad* ‘piler’; E 1 Mobu *pábádē* ‘frotter’; 5a Bid *póðpôd* ‘broyer, froiser’. Cf. EDng *páadé* ‘marteler le fer rougi au feu’. Cf. W 3 Bol *pídi* ‘hard black stone (for roughing grinding quern)’ [GAB].

//Cf. Sem Arab *fdh*, *fdg* ‘casser, briser, écraser avec une pierre’ [BK II: 555f].

418. W *pVd- (< *pVdd- ‘**to untie, unfold**’): 3 Pero *píddò* ‘to unbind’, Gera *fóodà-mí* ‘to untie’ [SchB], Tng *pedè* ‘to untie, loosen, unfold’; 4 Paa *pídà* ‘to lay out (straw before plaiting)’ [MS]. //Sem Akk *padû* ‘to release, relent’ OB, SB, NA [CAD p: 6], Arab *fdy* (i) ‘donner la liberté à qqn’ [BK II: 557].

419. C *pVd- (< *pVdVH-) ‘**to wrap, bandage**’: C 2 Klb *mpəðû* ‘to roll up’ [MuK]; 5 Pod *pede* ‘to roll up, wrap up’; 6 Daba *pad* ‘retourner, bander’; 7 Cuv *mépèdèy* ‘enrouler’, Zlg *pádá* ‘envelopper, entourer’ > *pádá ákábá* ‘enrouler, rouler une chose sur elle-même’ (*ákábá* ‘sur soi’), Merey *padà* ‘to pack, to pack’, Mafa *pád-* ‘enrouler, bander’, *pádayi ged* ‘bandeau de tissu’, Mofu -*pad-* ‘rouler, enrouler’. Cf. E 1 Mobu *podde* ‘couvrir’.

Note that 2 root variants (cf. №305. ***fVHVd-** ‘**to gather, roll up, pack**’) differ in Podoko. On the other hand, reflexes in Mofu differ only on the phonological level: C 7 Mofu -*pad-* ‘rouler, enrouler’ & -*fad-* ‘rouler, enrouler’.

//Sem Akk *napdû* (SB) ‘tie, bandage’ [CAD n₁: 291], ‘Ferstärkungsband’ [AHw].

420. *pat- ‘**to tear, extract**’: W 1 Hs *fáttà* ‘to tear, rip’; 6 Duw *pàatiyo* ‘to strip palm leaves for weaving’; 9a Gdr -*pt-* ‘to uproot’; 10 Masa, Musey, Marba, Peve, Hede *pat* ‘to extract’ [Shy], Gizey, Masa, Musey, Ham, Lew, Marba *pát* ‘extraire’, Gizey, Masa, Musey *pát* ‘arracher’ [LexC], Musey *pad-ta* ‘arracher, enlever, cueillir’ [ShyM], Masa *pát* ‘enlever, arracher, récolter; castrer’ [CC], Dzpw *pát* ‘retirer, épiler, enlever; ôter, castrer’, Dari *pát* ‘enlever, ôter’, Azum *pata* ‘to remove, extract, to castrate’; E 1 Ngam *patí* ‘cueillir’.

Deriv. in *-k-*: C 6 Buwal *putok^w* ‘to tear in passing’.
For a roott-variant cf. 430. **pit/t-* ‘to peel, pluck’.

421. *patt-/paw/yVt- ‘to pour’: W 3 Bol *pàttu* ‘pour, spill’ [GAB], cf. Pero *páttò* ‘to put in, spill’, Kupto *fàttéy* ‘to pour (in, out)’; E 5a Bid *pet* ‘transvaser’, *pòyot* ‘puiser de l'eau’, WDng *pàytè* ‘verser de l'eau par terre en grande quantité’, Mig *pòotò* ‘verser’.
Derived noun: W 3 Bol *pito* ‘rain [Bn], *pìto* ‘rain, storm’, *pàttàana* ‘waterway, route that water follows during rain’ [GAB].
Deriv.: W 3 Pero *pút-dò* ‘to wash’.

422. *pVt- ‘to go (out)’: W 1 Hs *fita* ‘to go out; (crop) to germinate’; 2 Ngas *put* ‘to come out, go forth’ [Fl], *put* ‘to go out, come out; happen’ [JgN], Chip *pút* [Kr] ‘to go out’, Mpn *pūt*, pl. *pwát*, Mush *pút* ‘to go out, come out’ [JgO], Mghv *put* ‘to go out, get out’ [BLM], Goem *pát* ‘to exit, go out, appear’ [Hlw]; 3 Ngm (dial.) *fàta*, *hàtâ* [NEH], Tng *pódi*, Krkr *fàtaa* [GK] ‘to go out’, Bol *pàtaa* ‘go out, exit’ in Vent ‘to sprout, germinate’ [GAB], Pero *pétò*, Bele *fátí-kò*, Gera *fid-mí*, Glm *páz-* (-z-<-t- is regular), Krf *fat-* [SchB]; C 4 Gude *pítə* ‘to go, pass by’, Gudu *pit* ‘to go’ [Jglb]; 6 Daba *pát* ‘sortir de la maison’; 7 Mofu *pát* ‘sortir brusquement’, *pētīt* idf. ‘running’; E 3 Tum *pád* ‘passer’. Note W 3 Kupto *féktá* (internal *-k-* pl.) ‘to go out, to come out, to appear; to germinate’;
//Cush agaw **fät-* ‘to go’ [ApAg], Berb Shilh *ftu* ‘partir, marcher, aller’, MC *ftu* ‘partir, s'en aller’ [NZ: 667].
[Nm **pəta*, Jglb **pt*, AA 1 №54 **ft*, №43 **pt*].

423. C *pVt- ‘to untie, disconnect’: C 4 Gude *pítə* ‘to unfasten; break off tree limbs’; 10 Dari *pùt* ‘détacher, dérouler, démêler’, Ham *pót*, Marba *pát* ‘retirer (une corde)’ [LexC], Dzpw *pát* ‘se peigner’. Cf. E 4 Sok *fitifiti* ‘öffnen, lösen’ [Luk]; 5a Bid *pit* ‘ouvrir’; C 7 Mofu *-páth-* ‘écarquiller (les yeux), ouvrir (l'anus)’.
a. Secondary *f-* in Sokoro can not be excluded. In this case all Ch forms follow **pVt(Vh)- ‘to untie, to open’* (for the same semantic link see Geez).
b. Alternatively, Mofu *-páth-* may be considered an Arabism. In this case it is reasonable to postulate CCh **pVt- ‘to untie, disconnect’* and ECh **fit-* ‘to open’ cognate with Sem **pth*.

//Sem Akk *petû*, *patû* OAkk ‘to open’ [AHw: 858], Ug *pth*, Hbr, Phn, Pun, Aram *pth* ‘to open’ [DUL II: 675], Arab *fth* ‘ouvrir’ [BK II: 532], Geez *fatha* ‘open, untie, release’, Sab *fth*, Ethiopic *fth* > Cush Bilin *fätah*, Beja *fetah* ‘open’ [LsG: 170], ‘öffnen, auftun’ [RBd].

424. *pVt- ‘to escape, disappear’: 3 Bol *pittu* [GAB]; 4 Paa *patèe* [MS]; 6 WBade *pàtu*, Duw *àpcùwo*, VN *àptà* ‘to get lost, disappear’; 7 Monguna *pwêt*, Mundat *pwét*, Karfa *pwet* ‘to escape’ [RC]; C 5 Pod *putə* idf. ‘se sauver’.

Deriv.: W 6 WBade *pòt-ku* ‘to escape’.

//ECush dull Dob *pata* ‘verloren’, Goll, Dob *pat-* ‘verlorengehen, disappear’, Dob *pat-* ‘verschwinden’ [AMS].

425. *pVtt-/*pVHvt- ‘to cut into pieces’: W 2 Mghv *pet* ‘aufschneiden’ [JgS]; 3 Pero *péttò* ‘to cut into pieces’; 4 Paa *patà* ‘to split’ [MS]; 6 WBade *piìtu* ‘to slit, cut slit in’; C 4 Gude *pwatə* ‘to cut animals into pieces’ (plurac. in -w-); 5 Pod *pətə* idf. ‘couper’; 6 cf. C 6 Buwal *pèt* ‘to harvest’; 7 Mada *pápàt* (compensatory redupl < *Hpt/pHt*) ‘(couper) d'un coup’, Mafa *pat-* ‘tailler, rendre pointu’, Mbuko *pépet* ‘to cut small pieces’, Mol *pataw* ‘to cut’ [FsM]; E 5a Mig *pèetò* ‘fendre, tatouer’, Bid *peet* ‘fendre un bois, bifurquer, cicatriser’.

For C 7 Mafa *pat-* ‘tailler, rendre pointu’ cf. C 6 Mina *pèt* ‘to sharpen’ [FrJ].

Deriv. in -k- : C 6 WBade *àpcèku* (< *pt-k) ‘to cut piece off’; C 7 Mofu *-pátkʷ-* ‘percer (un bouton, citron)’. Note also C 7 Mbuko *péték* idf. ‘small portions’.

//SCush rift Irg *pa'at* ‘be split’ [MQk]. Cf. Sem Arab *ftt* ‘fendre (pierres), casser, broyer’ [BK II: 531]. For Irg *pu'uut* ‘to burst, pop’ [MQK] cf. WCh 2 Mghv *pet* [BLM], Mpn *pèt* ‘to burst, explode’.

[JgIB *pt ‘to cut’].

426. *pVt- ‘to winnow, blow away’: W 2 Ngas *pat* ‘blowing away smth in the wind’ [Fl]; 3 Ngm *àptà* ‘to winnow using faifai’, Tng *peede* ‘to winnow, fan’; 5 Bogh *paat*, *paadwii* ‘to blow’ [Cs], Guus *piitiá* ‘to fan’ [CrG].

Deriv.: a. E 5a WDng *pàtär pàtär* ‘emporté par le vent’

b. C 7 Mofu *-pát-k-* ‘vanner, séparer (une graine de sa coque)’.

For a root variant see №312. ***fVt-** ‘to blow, to start fire’: Cf. Bol *pito* ‘wind’ [Kr], *pito* ‘wind, storm’ [GAB], *pito* ‘rain’ [Bn]. Probably, reflexes of ***fit-** ‘wind’ and ***pVt-** ‘rain’ conflated in Bolewa.

427. *pV(wV)t- ‘to exceed, surpass’: W 1 Hs *fiifitā* ‘to surpass’; C 5 Pod *pəta* ‘dépasser, faire trop’; E 5a WDng *pàatiyè* ‘dépasser la mesure’, EDng *pòtiyē* ‘rester, être en trop, dépasser la mesure’ < Arab? 6 Mok *púutè* ‘dépasser, vaincre’.

//For a possible cognate cf. Sem Arab *ftw* ‘surpasser qqn en générosité et en qualités mâles’ [BK II: 541], *fwt* ‘dépasser, devancer qqn avec qqch’ [BK II : 683].

428. *pVt/t- ‘to sweep, rub’: WCh 2 Ngas *pet* ‘to sweep’ [Fl], Goem *pàt* ‘to wipe or brush smth, rub smth lightly’ [Hlw]; C 7 Baka *patáy* ‘balayer’ [BAS]. Mol *patay* ‘to wipe, rub’ [FsM]; 10 Azum *peta* ‘to strop (a razor); to rub (ochre into gourds)’; E 5a cf. WDng *pàt* ‘glisser’. Derived noun: W 2 Ngas *mpèt* [JgN], *pet* [Fl], Mpn (*m*)*pét*, Mghv (*m*)*pét* [BLM], Goem *mpàt* [Hlw] ‘broom’.

//Cf. Berb Shilh *afud* ‘être balayé, essuyé, nettoyé’ [NZ: 532].

429. *pVt/t- ‘to shoot an arrow’: W 2 Mush *pet*, *peet*, pl. *perep* (< *pete-p*) ‘to shoot an arrow’ [JgO]; 5 Bogh *pyiita*, Mng *piir*, *piidi* ‘to shoot’ [Cs]. Derived noun: C 7 Gis *petew* ‘Pfeil’.

//Cf. Sem Geez *nafṭ* ‘rifle’, *nafata* ‘to shoot’ (denominative), from Arab *nafṭ*, from Akk *napṭu* ‘Naphtha’ [LsG: 390, AHw: 742].

430. *pVit/t- ‘to peel, pluck’: W 4 Paa *pitàa* ‘to pluck’ [MS]; C 7 Muy *épètèy* ‘to peel’, Mofu *-pápət-* ‘to bark, peel’, Baka *mí-pete* ‘éplucher’ [BAS], Mafa *pit-* ‘décortiquer’; E 1 Kera *pété* ‘to pluck feathers, bark’; 4 E 4 Mawa *pitiŋ* ‘retirer’, Barein (dial.) *póotó*, *pooto*, *pōotó* (< **pwt*) ‘to shell (peanuts)’.

Deriv.: E 5a WDng *pítìnye* ‘décortiquer, défaire, déunir’.

Derived noun: E 4 Barein (dial) *pitti*, *pittá* ‘bark’ ~ ECush dull Harso, Dob *feete* ‘bark’ [AMS].

//Om Shin *fèèt-* ‘schählen’ [LSh], Sem Soq *ft̪* ‘mettre à nu, dépouiller’, Mhr *fata?*, *fata?*, Jib *ft̪a?* ‘nu’ [LsS: 335].

431. *pVt- ‘feather’: W 4 Paa *pooti* [MS]; C 7 Mofu *-pepét*; 8 Afd

phti-gge ‘Feder’ [Sol: 132]; 9 Mbara *pàatà*. Cf. E 6 Mok *púttù-sú* ‘feuille’ (with a suff. of sing.).

Common origin with the next issue can not be excluded:

E ***pVt-** ‘arm’: 4 Sok *pótú* ‘Arm’ [Luk]; 5a Mabire *pota* [JnH], 5b Jegu *fótó*, *pótó* ‘arm’

//Cf. Eg *hpt* MR ‘umarmen, umfassen’, *hpt* Lit MR, Gr ‘die Arme’ [EG III: 71].

432. *pVt- ‘all’: W 3 Kupto *pát*; C 2 Klb *pàpàtù* [MuK]; 7 Mol *pat* [FsM]; 7a Skn *pat*; 9 Mbara *pét*; 10 Gizey, Masa, Ham, Musey *pét* [LexC], Azum *pet*; E 2 Kaba, Nch *pət* [HmK], Lele *pēd*; 3 Tum *péd*, Ndam *pét*.

433. *puHVw- ‘to fall, to lie down’: W 4 Wrj *piy-*, *piw-*, Mburku, Tsagu *piy-*, Kar *piy-*, Miya *piya* ‘to lie down’ [SkNB], Wrj p'iy- ‘to lie down’ [BlS] (*p-* < *Hp-/pH-*); 6 WBade *pàwu* ‘to get down’; C 2 Klb *pwù* ‘to put into’, *pu* ‘to put’ [MuK], Bura *pi* ‘to lie down; to recline’, *pupi* ‘to lie down’, *pwi* ‘to put or place (many things), put down a load, go down’ [BIB], Chb *pùi* ‘setzen, legen’ [HfC]; 5 Pod *pa* ‘to put’, Mlg *piúwa* ‘legen’; 6 Buwal *pa* ‘to put’; C 7 Ould *-pùh^w* ‘tomber d'en haut’, Mada *épe* ‘mettre, poser’, Merey *pà* ‘déposer’; Mofu *-p-* ‘placer, poser’, cf. Ould *pəb* ‘action de tomber’; 8 cf. Makari *pa he* ‘pencher qqch’ [ALM]; E 5a WDng *pàayè* (tr., intr.), Bid *paay* ‘descendre’.

//SCush rift Iraq *píx* idf. ‘sound of smth falling on the ground’ [MKQ], *paah* ‘crumble off, fall down in small bits, drip’ [Kies], Berb Rif *fuha* ‘tomber’ [NZ: 544].

434. *pVH- ‘to give birth’: W 4 Wrj *pa-*, Mburku pú-, Kar *paay* ‘to give birth’ [SkNB]; C 4 FM *poyi*, FBw *pwe* [Kr], Gude *poo* ‘to give birth’; 7 Ould *pàhóy* ‘donner des fruits’ (pl. in *-n-*).

//Eg *p'p'* Gr ‘gebären, geboren werden’ [EG I: 504].

Cf. [EDE II: 426].

a. W ***pVwVy-** ‘new’: 2 Goem *pwá* ‘to be new’ [Hlw], Mush *pwoo* ‘novelty’ [JgO], Mpn *píó* ‘new’; 3 ‘new’: Bol *pooyo* [GAB] Maka *poyo*, Ngm (G) *hòoyò* [NEH], Pero *póyò*, Krf *fóoyó* [Stl], Kupto *fòoyò*. Denom. verb in *?a-*: W 3 Kupto *?appéy* ‘to start (a new day)’.

b. W 2 ***pVy-** ‘early’: Goem *pyú* ‘very early in the morning’ [Hlw],

Mpn *m̥pə bít* ‘morning, very early when cock crows’ (*bít* ‘morning’). //Sem Sab *fw̥* ‘beginning’ [Bl: 401], Arab *faw̥-at-* ‘commencement (du jour ou de la nuit)’, *fay̥-* ‘commencement (d’une chose)’ [BK II: 646, 664], ECush dull Harso, Dob *payy-* ‘anfangen’, Goll *payy-* ‘beginnen’ [AMS].

435. *pVh(Vw)- ‘to break (off, into pieces), destroy’: W 3 Bol *pøyyu* ‘to break into pieces, shatter’, *piyāayu* ‘to perish, destroy’ [GAB]; C 5 Pod *pəhʷa* ‘to break off (a limb)’, deriv. *pahʷa-ca* ‘to break up’; cf. 8 Bud *fō* (<*phw*) ‘piler’ [Awg].

Derived noun ‘flour’: C 1 Gaa *fohʷə-ta*, Gbn *fixʷə-tə* (regressive assim. of *p-*) [Kr]; 5 Pod *pəhʷa*.

//ECush dull Dob, Goll *pah-* ‘zerstören’ [AMS], SCush Bur *puh-*, Alg *puhum-* ‘to pound (grain)’ [Eh: 146].

Not necessarily cognate with the next issue (note related forms in Cush, on the one hand, and in Arabic, on the other).

436. C *pVH- ‘to hit, strike’: C 7 Mbuko *pa* ‘battre’, Muy *pāx* idf. ‘(hitting) lightly’; 8 Bud *fī* (< *pVh-) ‘frapper’ [Awg]; 10 Azum *pā* ‘the sound made by hitting smo’, Dari *pīē* ‘frapper’, Musey *po-ra* ‘claquer les mains’ [ShyM].

Derived noun: C 6 Buwal *poxʷpóxʷ* ‘thrashing stick’; 10 Dari *pəpá?* ‘fléau’.

//Sem Arab *nfh* ‘frapper avec le pied (chamelle)’ [BK II: 1305].

437. W *piya(h)- ‘clay’: 5 Zaar *vyaa* ‘clay used to build houses’ [CrZ]; 7 DB *piya* ‘clay-pit’, DB *píyà*, Sha *pyà*, Mundat *pya* ‘clay’ [RC], DB *piyah* ‘Lehm’ [JgR].

//Eg *pyp* ‘(Lehm) kneten’ Na [EG I: 502]. For alternative cognates of Eg see [EDE II: 416-418].

438. *pVYʷ- ‘to split (wood)’: W 6 WBade *pàgu* ‘split’, deriv. *pàgbu*, *pàbgu* ‘break in pieces’; C 3 Bana *páxʷá* ‘fendre le bois’ [BlB]; 4 Tsuvan *páhə-n* ‘to split wood’ [BryJ].

//Cf. Eg *pħj* ‘spalten, öffnen’ [EDE II: 496].

a. C *pVYʷ- ‘to scratch, tattoo’: 5 Glv *pɔjʷ* ‘to scratch, bruise’; 7 Zlg *páhá* ‘se cicatriser’, Mbuko *páháy* ‘cicatriser’, *pahay* ‘couper’. Cf. C 7 Mafa *páhác-* ‘ébrécher’.

439. *pVY(Vw)- ‘to accompany, lead’: W 3 cf. Kupto *faggé* idf. ‘to go in groups’; C 3 Bana *pxi* ‘accompagner, HF *bya-*, Kap *byà-ke* (voicing in contact), FG *pxa-ki* ‘to accompany’ [Kr]; 5 Glv *poy^w* ‘to lead’, Gdf *pòyà* ‘to accompany’ [KimG].

440. C *pVY- ‘to pour’: 5-5a Lmn *puya*, Hdi *pəkai*, Vemgo *mbka*, Dghw *pəkə* ‘to pour’ [HmG], Hitk *pəy-*‘eingiessen’; C 7Mafa *pəha^wa* ‘couler abondement’, Ould -*pùhw* ‘couler, tomber d’en haut’.

For a possible cognate cf. C 5a Hdi *paya-ku* ‘une femme qui coule du sang’.

//SCush Dah *paah-* ‘to wash’ [TD], Irw *paah* ‘fall down in small bits, drip’ [MMQ].

For C 5 < AA *pk/Q see [TN № 367].

441. *pVY/hVI- ‘thigh’: W 2 Ngas *pyaal* ‘the thigh, generally used of cattle’ [Fl], Mghv *pyáyál* ‘thigh’ [BlM], Mush *pyákál* ‘thigh’ [JgO]; 3 Tng *pila*, Glm *pàlà* [SchB]; C 6 Daba *pòhōl*, Kola *páwál* [JgIb] ‘thigh’

//Sem Akk *pahallu* OB, Mari, SB ‘thigh’ Sum lw. [CAD p: 20], *pahallu* ‘Oberschenkel’ [AHw: 810].

[JgIb *pwl].

442. *pag- ‘hide, shelter’: W 4 Kar *pag^wa*, Paa, Jimb, Mburku, Tsagu *pu(w)-* ‘to hide’ [SkNB], Miya *puwa*, pl. *pùwa-kə* ‘to hide’.

Derived verb: W 3 Tng *pigde* (< *pg-t-, complete action) ‘to shield, protect’.

Derived nouns: W 6 GBade *pagà*, WBade *pagán* ‘shelter, shed’; E Tum *pàgá* ‘vannerie pour le toit des maisons’.

//Cf. Eg *pd.wy* ‘Seitenwände eines Gebäudes’, (?) ‘part of a buiding’ [EDE II: 546], Sem Akk *napāgu* (MB) ‘to sink, disappear, hide’ (only Inf. attested) [CAD n₁: 263].

443. *[p]Vg- ‘to pluck, remove, tear’: W 1 Hs *fiigà* ‘to strip heads of g-c for fodder’, *fiigaa* ‘to pluck (feathers, hair); snatch thing from person’; E 3 Tum *pàg* ‘arracher, retirer, enlever’, Ndam *pəgà* ‘enlever, écorcher’.

//ECush Som *fiig* ‘to sweep, remove cataract from eye; peel’, cf. Sem Arab *fgw* II ‘découvrir une chose en ôtant de dessus ce qui la couvrait; ôter, enlever qqch’ [BK II: 546].

The following isogloss (suggested in [TN №365]) might be a remote cognate (cf. Hs ‘to snatch thing from person’):

W 2 Ngas *puk* ‘to take everything away, devastate, esp. in war (includes the burning and destruction of goods and houses)’ [Fl].

//Sem Akk *puāgu* OA, MA ‘to take (by force), to appropriate, to control’ [CAD p: 472].

444. *pV_k- ‘to fall, throw’: W 2 Mghv *paak* ‘to throw’ [Kr]; C 10 Gizey, Masa, Ham, Gizey, Marba *púk*, Musey *pukka* ‘tomber’ [LexC], Azum *puka* ‘to fall over’, Dari *pīk* ‘jeter (petites choses)’, Dzpw *pīk* ‘jeter’; E 3 Tum *pòg* ‘abattre, terrasser (qqn), faire tomber’ (-g- < *-k- is regular).

//Cf. Sem Arab *ʃfk* ‘renverser, retourner’ [BK II: 40].

For Dari-Tum see [TN №369].

445. *pV_k- ‘to give birth’ (pl. in -k-, for sg. cf. №434. ***pVH-** ‘to give birth’): C 9 Mlw *púki*, Mnj *puki*, Mbara *púk* ‘enfanter, accoucher’; 10 Gizey, Masa, Musey *púk* [ShyM], Masa *pùk* ‘accoucher’ [CC], Azum *puka* ‘to be born’; E 1 Ndam *piga* ‘pondre (des oeufs)’.

Derived noun: C 4 Gude *pəkə* ‘bloom, sprout’.

Cf. E 5a EDng *piké* ‘éclater, sortir (épi qui devient visible)’.

446. *pV_k- ‘to shelter, cover, protect’: W 1 Hs *fákà* ‘to shelter’; C 6 Mina *pék* ‘to cover a receptacle’ [FrJ], cf. Mghv *puk* ‘to roof’ [BLM].
Derived noun: W 1 Hs *fákèe* ‘a shelter’; 5 Zul *piike*, Geji *puki* ‘wall of room/compound’ [Cs №172], C 7a Skn *mə-pəkə* ‘vestibule (thatched extension to a room)’.

//Cf. ECush dull Harso, Goll, Gaw *pokkólle* ‘Hauswand’ [AMS].

447. *pak- ‘to (lie in) wait’: W 1 Hs *fákaa* ‘lie in wait for; listen to person unobserved’; C 5 Mlg *páka* ‘warten’, Glv *pak*, Wnd *páká* [FW] ‘to wait’.

448. W *pV_k- ‘to end, to die’: 1 Hs *fáku* ‘to die, disappear from the sight of one’s friends’; 5 Zaar *pok* ‘to finish’ [CrZ].

Derived noun: 4 Wrj *pok-ti* ‘end’ [BlS].

//SCush Irq, Bur, Alg *fak-* ‘to finish’, Asa *fak-* ‘to end’ [Eh: 150], rift **faak-*: Irq, Gor, Alg, Bur *faak* ‘to finish, to come to an end’ [Kies], E dull Harso, Dob *pakk-* ‘aufhören’ [AMS], Berb Qab *fakk*, *fukk-* ‘cesser, être fini’, Shawiya *fuk* ‘terminer’ [NZ: 550].

The following isogloss may be cognate:

a. W **puk-* ‘to empty’: 2 Goem *phuk* ‘to empty the contents of a vessel into another’ (apud [TAS: 291]); 3 Bol *pükku* ‘to dip out, scoop out’ [GAB], Kupto *fükkéy* ‘to scoop’.

449. **pak-* ‘wing, arm’: W 1 Hs *fiffikè*, *fiiffükè*, *fikàafikii* ‘wing of a bird’; 3 Tng *paka* ‘hand, arm, branch’, Kupto *fáhá*, pl. *fákká* ‘arm, wing, branch’; 4 Miya *pákə* ‘arm, wing’ [Sch], Wrj *pak-ai*, Kariya *pak*, Paa *puka*, Miya *pakə* ‘arm, wing’ [SkNB]; 5 Tala *pik-par* ‘wing’ [Cs]; C 7 Chuv *pépöek^w* ‘plume’.

//Berb Ahag *tefákfak* ‘partie osseuse et charnue de l'aile (aile sans les plumes); aile’, Ghat *tafakfak* ‘aile’ [NZ : 550]. < Ch ?

450. **pak-* ‘cheek, temple, side (of face)’: W 2 Mghv *ká-pák* ‘cheek, side of face’ [JgS, BLM], Mpn *ká-pák* ‘cheek’; C 2 Bura *puk-um* ‘cheek’ [BlB]; 5a Htlk *pág-ám* ‘Schlafe, temple’ [LkH]. Cf. C 6 Buwal *pak* ‘to put to one side’. Note *k-* and *-m-* as affixes of body-parts.

451. **pak/k-* ‘to lift, rise’: C 4 Gude *paka* ‘to lift up edge of smth’; 5 Pod *paká* ‘to lift up smth flat’; 6 Daba *pák* ‘suspendre’; E 5a Bid *pak* ‘ressusciter’; 5b Tob *pógré* ‘soulever’.

//Sem Geez *fwq* ‘jump up, go up, boil over’, Arab *fwq* ‘surpass’, *fawqu* ‘up(stairs), on top’ [LsG: 172].

452. **puk/k-* ‘to collect’: W 2 Goem *puk* (intr.) ‘to collect into mass’ [Hlw]; C 7a Skn *pøka*, *puka* ‘to collect’. Cf. 9a Gdr *pák* ‘all’ [FrG]. Deriv. in *-t-*: W 3 Bade *pák^w-tu* ‘to join’.

//Cf. Eg Copt *pōōk* ‘sammeln ; tragen’ [EDE II: 432].

453. **pVk/kVw-* ‘to peel, strip off, pinch’: W 2 Ngas *pok* ‘to peel, skin’ [Fl, JgN]; 3 Bol *poku* ‘to peel, strip off’ [GAB]; 6 (partial redupl.) Ngz *pápku* ‘to scrape off, shave’; C 6 Daba *pèpèk* ‘enlever la peau d’arachide’; 7 Mofu *-pæk^w-* ‘enlever (un bonnet), décherber (à la houe),

arracher’, Muy *ápàkʷāy* ‘to tear open’; 9 MIw *píki*, Mnj *piki* ‘pincer’; 10 Dzpw *pók* ‘pincer’, Dari *pōk* ‘pincer, couper qqch de mou’, Musey *pekka* ‘pincer; ôter, élever; couper une petit morceau’ [ShyM], Peve *pok* ‘to pinch off’ [Vn]; E 5a WDng *pòkkiyè* ‘décapsuler’.

Derived noun: W 3 Pero *pékúrò* ‘husk’; E 6 Mok *pákìr-tè* ‘écorce’ (pl. in *-r-*), C 7 Mofu *to-pokʷ* ‘glume de mil’, Ould *pákà-pákàw* ‘écorce du tronc, arraché à un bananier, palmier’.

Cf. C 10 Dari *pōk-sód*‘(pincer + dirt)’ ‘charognard’.

//Sem Aram (Syr) *pq* ‘to peel, shell, hull’, Arab *fq* II stem ‘crever, s’ouvrir (se dit de la capsule, de l’enveloppe du fruit dans certaines plantes)’, *faq*?- ‘membrane qui enveloppe la tête du foetus’ [BK II: 617]; Omot Wolt *fookk*-, Gamo *pokk*'- ‘to peel’ [LmW], Wolt *fokuw*, Dache *fok'o*, Gamu *poko* ‘bark’ [LmW: 351f], EWOMETO, C’ara *pok'o* ‘bark’ [BndO : 54], SCush Qwadza *pa'uko*, Dah *páko* ‘bark’ [Eh: 143].

[AA 1 №16 **pVk* ‘to peel, scratch’: Sem+Ngas, Kera; for Pero-Mok see TN №426].

The following isogloss seems cognate:

a. ****pVK*- ‘to harvest and peel cotton’:** W 2 Ngas *puk* ‘to harvest cotton’, *puk* ‘cotton, cleaned from seeds’ [Fl], *puk* ‘to pick cotton, separate from seeds’ [JgN]; E 1 Kera *póké* ‘éplucher, récolter la cotton’

454. **pVk/k*- ‘to pour’: W 3 Tng *puke* ‘to water’; C 4 Bch *puke* ‘to pour’ [SkNB], Gude *pəkə* ‘to put or place by pouring’; 7 Mbuko *pāk*, *pəkay* ‘verser’; 9 Mnj *puki* ‘verser’; E 1 Kera *púki* ‘vergiessen’; 5a WDng *pàkè* ‘verser à grande eau’, EDng *pàkē* ‘verser un liquide’; 5b Jegu *pak*- ‘herabfallen (Regen)’.

Cf. W 7 Monguna *pok*, Mundat *apók* ‘seasonal river’ [RC].

//Sem Ug *npk* ‘Quelle’ [Ais: 210], Ug *ápq* ‘spring, source’, Hbr *?pyq* ‘stream-bed’ [Ais: 32, DUL: 87], Berb NIG *effek* ‘verser’, Awj *effok*, *ffok* ‘verser, couler’ [NZ: 551].

455. **pa[k]J*- ‘to pound’: W 2 Goem *jàk* ‘pound in a mortar (smth that is moist)’, *pyàk* ‘step on, crush smth (with foot)’ [Hlw]; Note, that Goemai *jà*- rather results from a shift of emphasis: **pVk* > *jàVk*.

a. Deriv.: ‘to break (off, down): C 7 Muy *ápàkʷāy* ‘to break off (wood) at the join’; 2 Bura *pukta* ‘to raze, break down/apart’.

//Sem Geez *faq'a* ‘split asunder, shatter, break through, split head,

wound’, Sem *fq^c* ‘to split’ [LsG: 163]. ECush dull Goll *paq-* ‘zerbrechen’, Dob, Goll *paq-* ‘zersplittern’ (intr.) [AMS].

456. *pas- ‘to dig, bury’: W 4 Paa *pisù* [MS], Miya *pəsə*, pl. *pəsa-ke* ‘to bury’ [Sch], Wrj *pəš-* ‘to bury, fill a hole up (as when covering a grave)’ [BlS, SkNB] C 5 Wnd *pásá* ‘to dig’ [FW]; 6 Buwal *mpás* ‘to bury’, Mina *pəs-* ‘to cover with soil’ [FrJ], cf. Daba *pás* ‘biner’; 7 Zlg *pásá* ‘déterr en grattant’, Mofu *-pəš-* ‘enterrer, boucher un trou’, cf. Cuv *mé-pšéhèy* (pl.?) ‘enterrer, boucher un trou’; 8 Makari *fasi ho* ‘deterre’ (regressive assim. of *p-*) [AlM].

Deriv. in *-k-*: W 1 Hs *fáskà* ‘to dig (ground)’ (but cf. W 4 Miya *pəsa-ke* pl. in *-k-*).

Note E 2 Lele *pāsīlī* ‘creuser dans un endroit dur’.

//Sem Geez *fhs* ‘to dig, examine, scrutinize carefully’ [LsG: 157].

The following forms may be cognate:

a. W ***pVs- ‘to dip out’:** 3 Bol *paaši* ‘scooping water to expose fish’ [GAB]; 6 Duw *əpsø* ‘to dip out’.

457. *pas- ‘to comb hair’: W 1 Hs *fiišii* ‘putting tidy or tittivating woman's hair’; 2 Ngas *pes* ‘to remove, comb’ [JgN], Mpñ *pāas* ‘to comb hair’, Mghv *pàas* ‘to comb, clean’ [BlM], Kofyar *paas* ‘to comb hair’, Goem *paas* ‘to clear (a horse's tail from dirt)’ (apud [TAS: 282]); C 7 Muy *ápásāy* ‘to comb’⁴⁹. Cf. W 3 Bol *pišordi* ‘a comb’ [GAB].

The following root is cognate:

a. C 7 ***pas- ‘to detach’:** 3 Bana *pásá* ‘décortiquer, déplucher, peler’; 7 Mada *áppas* ‘délier, détacher, découdre, défaire’, Mol *pasay* ‘to detach’ [FrM]. Cf. B 2 Bura *psi* ‘to acquit, release, let go’.

Deriv in *-k-*: C 7 Mol *pəsakay* [FsM], Mbuko *pésak* ‘détacher’, Mofu *-pəsk-* ‘détacher, défaire, découdre’, Gis *psak* to unfold (mat).

//Berb Shilh *fsu* ‘carder’, Rif *fsu* ‘peigner la lain, le lin’, Maroco dial. *fsu* ‘défaire, étirer, nettoyer (la lain)’, Qab *fsu* ‘défaire, étirer (la lain)’, Shilh *fsi* ‘denouer, détacher, délier’ [NZ: 656, 665].

458. *pVs- ‘to sprinlke, drizzle, spit’: W 4 Wrj *pusi* ‘to spew something out of your mouth, spit something out’ [BlS]; 5 Zaar *paas* ‘to spill’ [CrZ]; C 1 Gaa *pišə* [SkNB: 41]; 2 Bura *pši* (also *pšita*) ‘to

⁴⁹ Common origin of WCh and Arab *nfš* (< AA **nfc̥*) was postulated in [AA]. However, CCh data points to AA *-s-. Thus, Arabic form is not cognate with Ch.

sprinkle' [BlB]; 3 FK *píši* 'to squirt, spray'; 5 Mlg *páša* 'Wasser sprenkeln; melken', Pod *piše* 'to drizzle, sprinkle'; 7 Mafa *piš-* 'cracher de l'eau, bruiner', Mada *épse* 'asperger, cracher', Mofu *-pəs-* 'cracher dans une calebasse pour la bénir', Zlg *pisé* 'asperger'; 10 Dzpw *pís* 'asperger'; E 4 Mawa *pəso* 'mouillé, humide', Sok *pəso*, *pézo* 'wet' [Luk]; 5a Mig *pisáw* 'cracher'.

Deriv.: C 6 Buwal *pišek* 'to spit out'; 7 Balda *píšet* 'to spit (salive)' [Bry]. Cf. Mghv *pàšpàš* idf. 'sound of splashing water or water coming out of a spring' [BlM].

[Nm **pəsə* 'to spew, spray'].

//Cf. Sem Sab *nfs* 'to cause water to spread out', Arab Dat *nfs* 'spread out, flow out' [Bll: 309]. Berb Mzab *fsa* 'répandre, verser', Qab *efsa* 'être répandu, se répandre (liquide)' [NZ: 658]

For root-variants cf. **fVs-* 'to sprinkle, make wet', **pat-* 'to drizzle, sprinkle', **pVz-* 'to spray, sprinkle'.

459. **pVs-* 'to rebel, resist': W 2 cf. Ngas *pes* 'to instigate' [JgN]; C 7 Zlg *pásá* 'se rebeller'; E 6 Mig *'áppisò* 'refuser, résister'.

//Sem Ug *pš^c* 'rebellion, transgression', Hbr *pš^c* 'to break with, behave as a criminal', *pš^c* 'offence, crime' ('to rebel, revolt' [KB: 785]), cf. Syr *pš^c* 'to behave foolishly' [DUL: 675].

As L. Kogan [Kg: 37] noted, CC may be cognate with Akk *puāšu*, see the next issue.

460. **pVs-* 'anger, irritation; to insult': W 1 Hausa *fúšti* 'anger, exasperation', *fúsaatà* 'become angry'; C 7 Mada *ápsàwà* 'mépriser, déshonorer'; E 2 Lele *pōsí* 'insulter'.

//Sem Akk *puāšu* etwa 'sich ärgern', D 'schimpfen'? [AHw: 875], *pištū* 'insult' n. [CAD p: 433].

461. **pVs-* 'to grow (plants)': W 2 Goem *pias* 'to start to grow' (apud [TAS: 297]); C 3 Bana *pásá* 'grandir, pousser'; 5 Pod *pəsá* 'pousser (tête de mil)'.

//Berb Ntifa *fsu* 'croître, pousser', MC *fsu* 'pousser, végéter', Shilh *fsu* 'épier' [NZ : 656].

462. **pVs-* 'to break': W 1 Hs *fásà* 'to break irregularly'; 3 Tng *pas* idf. describing sound of smth breaking; 5 Guus *pas* 'to break, smash (a

pot’ [CrG]; C 2 Bura *pwasi* ‘to divide smth hard’ [BlB]; 4 Gude *púší* idf. ‘breaking of falling object’; ECh 3 Tum *páž* ‘casser’ (all Ch sibilants and sibilant affricates yield -ž# in Tumak); 5a WDng *péssè* ‘casser avec la main (noix, morceau de sucre)’.

b. W 1 Hs *fáši* ‘the first rough grinding of corn’ E 4 Mawa *pisu* ‘flour’. Alternatively < *sVp- ‘to pound corn’ (metath.) [CLD III №76].

463. *pVs- ‘to blow, breathe; winnow’: C 7 Mbuko *pasay* ‘respirer’, *ápas-và* ‘se reposer’; 9 Mbara *písé* ‘souffler’, cf. Msg *psa* ‘pfeifen’ [LkM]; E 5a Mabire *-pisa* ‘souffler’ [HuJ], Mig *pássó* ‘vanner’, EDng *pésé* ‘vanner dans le vent’.

Derived noun: C 7 Mbuko *āpásáy* ‘esprit’; Muy *ápás* ‘to rest, chat’.

//Sem *ps ‘to breathe’: Akk *pašû*, Hbr pB *pwš*, etc. [SED I, Vb. 56], Cush Ong *fusaa* ‘to blow’ [FlO].

For a metath. cf. Ch *sVp-‘to blow, winnow’ [CLD III №72].

For Mbara – Sem *ps see [TN №350].

464. *pV(HV)s- ‘to disperse, spread’: W 1 Hs *fásà* ‘to disperse a gathering’; C Pod *pəsa* ‘to pour (smth powdery)’; 6 Buwal *papas* ‘to spread out bits of’; 7 Mada *ávvásà* (< *avavas* < *apapas-*, compensatory redupl.) ‘être disperser’.

Derived verbs: C 2 Bura *pšari* ‘to spread on the ground’; 6 Daba *pùsük* ‘éparpiler, répandre’; E 2 Lele *pásiní* ‘disperser’.

//Sem Geez *fhs* ‘to spread out, stretch out’ [LsG: 157], SCush rift Alg *pas-it-* ‘to scatter’ [Eh: 161].

465. W *pVs- ‘to sting, shoot’: W 2 Ngas *pus* ‘to shoot as of an arrow, to sting, it generally connotes the meaning that the arrow has hit the mark’, *pwas* ‘to shoot, but generally used of many shootings’ [Fl], *pus*, pl. *pwas* ‘to shoot, to nail’ [JgN], Mghv *pùs*, pl. *pwas* ‘to shoot, to arrow; kick, butt (animal); to nail smth in’ [BlM], Mpñ *pùs* ‘to throw spear, shoot arrows; kick’, Mush *pús* ‘to throw, shoot’, pl. *pwas* ‘to throw’ [JgO], Chip *pus gwe* ‘shoot’ [Kr]; 5 Tala *fis-*, *fəsi* ‘to shoot’ [Cs].

For external cognates of W 2 see [TN №351].

a. ***pVs- ‘sting, arrow’:** W 1 Hs *fásaa* ‘broad arrow with long barbs’; 2 Mghv *pas* [BlM], Mpñ *pás* ‘arrow’, Ngas *pas* ‘arrow, needle’ [JgN], Mush *pas* ‘traditional needle, arrow’ [JgO]; 3 ‘arrow’: Bol *pocčo* Krkr

fās-ku [GK], Pero *púžù-k*, Bele *fóččó*, Ngm *hò?òčò*, Krf *fūši*, Glm *pəši*, [SchV], Maka *póččó* [SvP]; 5 Grnt *pəši* [Ja], Saya *piis*, Jimi *fusko* (< Krkr?), Plc *pyas*, Saya *piis*, Zul *pəse* ‘arrow’ [Cs №105], Zaar *pī:s* ‘sting, arrowhead’ [CrZ], Dott *pəs* ‘quill, sting; arrow; awl’ [CrD]; 7 Karfa *ak-pas* ‘iron arrow’, Fyer *fwaš* ‘arrow’ [RC]; C 5a cf. Hdi *pusa* ‘clou, nail’ (‘a sharp point’).

[Cf. ISv: 25 – Bol, Ngas, Krkr forms].

466. C **pVs-* ‘to drop’: 2 Bura *psi-ta* ‘drop smth’, *psi-wa* ‘to drop smth into smth’ [BlB]; 7 Mbuko *pépas* ‘tomber à terre (toit, miettes)’ (< **HVpVs*, compensatory redupl.), Zlg *pèspèsis* ‘tomber’.

//Sem Arab *ʃʃs* ‘terrasser et traîner par terre’ [BK II: 299].

For Arabic ‘traîner par terre’ cf. the following isogloss:

a. W 6 ****pas-* ‘to drag on the ground’:** Duw *pàaso*, WBade *pàasu*.

For a derived noun cf. C 9 Mnj *pus-pus* ‘charrette à bras’; 10 Musey *pupus-na* ‘la charrette’.

467. **pus/c-* ‘to wash’: W 3 Bol *pìuušu* ‘to wash (thing)’ [GAB], Ngm (G) *hìuušâ* ‘to wash’ [NEH]; 5 Zar *pes* idf. ‘to wash’ [CrZ]; 6 WBade *ʒpsu* ‘to bathe’; C 3 Bana *pši* ‘laver’; 7 Gis *pus* ‘waschen’.

For a root variant see №484 ****pič-* ‘to wash, to clean’**.

468. **pVHVs/c- > pVpVs-* (compensator redupl.) ‘to render into small pieces’: W 6 Ngz *pàpsú* ‘to render into small pieces or powder’; C 7 Mofu *-pápəs-* (compensatory reduplication) ‘émettre, distribuer en petites bouchées, diviser la boule en petits morceaux’

Derived nouns: a. C 5 Glv *pášpàša* ‘crumbs, broken pieces’; 7 Muy *pìš-pìš* ‘crumbs’, Ould *péspès* ‘petit morceau’.

//Sem **phc* : Arab *ʃħs* ‘broyer, frotter dans la main’ [BK II: 547], PbHbr *pāħas* ‘smash, beat out of shape, dissolve by rubbing’ [LsG: 157].

Root extension (*h* as C₂) in Sem. On the other hand, partial redupl. (*pVpVs*) may be taken for ‘compensatory reduplication’: *C₁HC₂ > C₁C₁C₂*).

Alternatively Ch forms may stem from №462. ****pVs-* ‘to break’:**

For a ‘root variant’ cf. C 6 Daba *pās* ‘détruire’, *pèsēr* ‘détruire, démolir’ and Sem Akk *pasāsu* ‘to break, to cancel’ OAkk on [CAD p: 218] < AA **pcc* ‘to break, to destroy’.

469. *pVs/c/ç- ‘to spin’: W 2 Ngas *pus* ‘to spin cotton’ [JgN]; E 1 cf. Ndam *pásâ* ‘coudre’.

Derived noun: ***pVS-** ‘rope’: W 2 Ngas *pus* ‘rough string’ [Fl], Mpn *pùs* ‘tissue of plants used in rope-making’, Mghv *pìs-yáa* ‘yute, fibre’, *pìzèp* (<*pis-p*, pl. in -*p*) ‘fibre from maize cob’ [BLM]; E 1 Kera *pesi* ‘belt for a female loincloth’.

//Sem Geez *fhs* ‘spin (thread), twist’, *fəħso* ‘thread’, Mhr *fħas*, Tgr *fahasa* ‘twist’ [LsG:157].

Alternatively, W-ECh may be cognate with C 5a Hdi *paca-paca* ‘woven cord used to protect young girl's genitals’, all < Ch ***pVç-**.

470. *pVs/c- ‘hand’: E 5a Bid *pésè* ‘main, bras’, Mig *píssí* ‘main, bras, doigt’; WDng *písè* ‘hand, arm’, *pòosà* ‘patte avant d'un animal’, EDng *pósíj* ‘la main, le bras’; 5b Mubi *fɔsó* ‘hand, arm’ [Luk], *fòósó* ‘main’ [JgM], Kaj *fōoso*, pl. *fās* ‘main’.

For a denom. verb cf. C 9a Gdr *ps-* ‘to give’ [FrG].

//Sem Aram (Bibl) *pas-*, (Jud) *pis-t-*, (Mand) *pas-* ‘palm of a hand’ (< Afras ***pVc-**). Cf. Berb **afus, fus* ‘main, bras’ [NZ: 653-5]. According to A. Militarev, Berb **s* follows only AA sibilants (**s, *s̪*). If so, Berb and Aram forms can not follow one and the same proto-form. Ch and Aram may stem from AA ***pVc-**, while Ch and Berb - from AA ***ps**. To put them all together, we need to assume that Berber **s* may follow AA ***c**. Cf. [AA 1 №12 ***pVs**, var. ***pVs**, ‘hand’].

471. *pVz- ‘to spray, sprinkle’: W 6 Ngz *bàziyú* (regress. voicing) ‘to spray water from mouth’, WBade *pàzwu* ‘to spray’; C 7 Muy *épižēy* ‘to sprinkle with the mouth’; E 6 Mok *páázá* ‘(re)cracher,asperger le corps d'un nouveau-né’.

a. ***puz-** ‘rainy season’: W 2 Ngas, Mnt, Chip *pas* [JgC, JgN], Mpn, Goem *pas* [Fp], Goem *p'ás* [Hlw], Mwgh *pas, tar-pas* [BLM], Mushere *pás* [JgO] ‘rainy season’ (pl. in internal -*a-*, cf. [TAS: 299]), Mpn *tù-pūš* ‘tiny rain, heavy mist’; 3 Bol *puzò* ‘rainy season, rust’ [Bn, GAB], Ngm *huzô*, Krkr *fəzò* ‘rainy season’ [SchV].

//Cf. Sem Arab *fzz* (*i*) ‘saigner ou suppurer (se dit d'une plaie)’ [BK II: 589], Cush agaw Kemant *fāz-* ‘to flow’ [ApAg].

472. *pVz- ‘to disperse, spread’: C 3 FK *pəzə* ‘to spread’; C 8 Bud *phažii* ‘sich zerstreuen (Leute)’ [LkBd]; E 5a WDng *pàzziyè* ‘se

réprendre, s'éparpiller (chèvres...)'.

//Berb EWlmd *feziwek* 'se dispercer en désordre', Mzab *fezze*^c 'éparpiller, disperser' [NZ: 688].

The next root may be cognate with the present one.

473. *pVz- ‘**to smear, scrape**’: C 5 Pod *pížé* ‘to rub; frotter’; 6 Daba *pòz* ‘oindre le corps’; 7 Mafa *póz-* ‘cultiver (à la houe), gratter (la terre), se gratter’.

Note W 1 Hs *fázayii* ‘any clear space’ (‘scraped, cleaned’ ?).

//Sem Geez *fwz* ‘wipe off, efface, rub the back, sweep, clean by rubbing’, Tna *fawäzä* ‘scrape’ [LsG: 172f].

For a ‘root variant’ cf.:

W ***pVwVs-** ‘**to smear, rub, clean**’: 2 Mghv *pwos* ‘to rub’ [BlM], Ngas *pwas*, *pwis* ‘to smear, anoint’ [Fl], *pos* ‘to rub on’ [JgN], Mpn *pwās*, *pwēs* ‘to rub (ointment)’, Mush *poos* ‘to rub, clean’ [JgO]; 5 Grnt *pōoši* ‘to wipe, rub’ [Hr].

//Sem Akk *pašāšu* from OA, OB on ‘to smear, anoint’ [CAD p: 245] ‘salben, einreiben’ [AHw: 843].

474. *paç- ‘**to catch, take**’: W 1 Hs *fátsà* ‘catching fish by hook and line; fish-hook’; C 6 Mina *pàts-* ‘to take’ [MGr].

//Sem Akk **pu'uṣu* NA ‘to appropriate, embezzle’ [CAD p: 555].

475. *p[a]ç- ‘**to unload, put**’: W 4 Wrj, Kariya *pəts*⁻ ‘to descend, unload’ [SkNB], Wrj *pəts*⁻ ‘to bring down, unload’ [BlS]; C 6 Mina *pac* ‘to put’ [FrJ].

//Cf. Sem Arab *ḥfṣ* ‘jeter qqch, lancer’ [BK I: 459]. For an alternative cognate of W 4 see [TN №348].

476. *pVç- ‘**to tear, pluck**’: W 1 Hs *féetsè* ‘to remove loose ‘leaves’ from reeds to be used in making mats or string’; C 5 Gdf *picà* ‘to pluck’ [KimG]; 6 Daba *pāč* ‘arracher avec les racines’; 7 Mafa *puc-* ‘arracher (plant, arbre), déraciner’, Muy *ápáč* [ts] ‘to weed’, *ápàcāy* ‘remove’. //Sem Arab *fṣṣ* ‘tirer, extraire une chose d'une autre et l'en séparer’ [BK II: 598].

477. *pVç- ‘**to roast, burn**’: C 2 Bura *pca* ‘to roast, bake’, *pca-maya* ‘to roast it all’ [BlB], MrgC, Mrg [HfM: 29] *pcà* ‘to roast’,

Ngwahi *cə*, Hildi *ca* [Kr]; 3 HK *psa-* HB *pceyo*, FK *wča* ‘to roast’ [Kr], Bana *psá* ‘griller dans le feu’, *pásá* ‘griller beaucoup de choses’; 5 Mlg *péša* ‘verbrennen, rösten’, Wnd *pša* ‘to roast, to burn’ [Jglb]; 9a Gdr *pse* ‘to grill’ [FrG].

Derived noun: ***puç-r/n-** ‘ash’: W 4 Tsagu *pusə-n* (shift of emphatization), Siri *vəcə-ki* [SkNB]; C 1 Tera *pəži-t* [NmT], cf. Gaa *fiža* Gbn *fice*, Boka *fisi* (regressive assimil. of *p-*) [Kr]; 2 Bura *pinžù* [BlB], Ngwahi *pinžu* ‘ashes’, Chb *pinzú* (metath. and voicing in contact), Mrg *punsu-dú*, Klb *púcírú* [Kr]; 3 Bana *psá-r*; 7 Balda *púčú?* [Bry].

For CCh 1-2 < *pnZ see [TN №407].

//Cf. Eg *wps* ‘(der Bösen) verbrennen’ NR, *wps.t* ‘eine Göttin, welche die Bösen verbrennt’ Sp, Gr [EG I: 305].

478. C *paç- ‘to cut through, off’: 4 Gude *pacə* ‘to chop through with one blow’; 7 Ould *pac* idf. ‘action de couper qqch’, Zlg *pac*, Mbuko *pocpoc* ‘couper en abattant’.

//Cf. Cush Sid *faffač*- ‘to split (a log into small pieces)’ [KS: 312].

479. *pVç/c̚- ‘to germinate, give birth’: W 3 Kupto *péešē* ‘germinating’; C 2 Bura *pca* (ts) ‘to sprout’; 7 Mofu *-pəč-* ‘germer, pousser’, Chuv *mépcèy* ‘germer’, Muy *pəcūkʷ* idf. ‘giving birth’; E 2 Lele *pōsī* ‘engendrer beaucoup, se multiplier abondamment’. Cf. C 5 Pod *pəcəcə* idf. ‘plante toute petite qui vient de sortir’.

For a root-variant cf. №461. ***pVs-** ‘to grow (plants)’.

480. *pVç- (or *pVHVç-) ‘sun(shine), day’: W 2 Ngas *pus*, *puus* ‘sun, daylight’ [Fl], Mpn *pūus* ‘sun’, Mghv *puus* ‘sun, day’, Mnt *pəyəs*, Grk *pʷəyəs* [JgC], Mush *puus* [JgO] ‘sun’, Goem *p'ū:s* ‘sun, time’ [Hlw]; C 2 Bura *pči* ‘sun, daytime’, *ti-pči* ‘noon, daytime as contrasted with night’ [BlB], Mrg *bíči*, Wmd *piči*, Hld *puči*, Ngwahi *či či* (<*pči*), WM *bíjì* [Kr], Klb *piči* ‘sun’, *pùči* ‘during the dry season’ [MuK]; 6 Buwal *pěš*, Daba *pič*, Mina *pič* [FrJ], Mbedam *piss* ‘sun’ [LMb]; 7 Gis *pas* ‘Sonne’, *papas* ‘Tag’, *ta-pas* ‘Sonnenhitze, Tageslicht’, Mbuko *pac*, Chuv *pás*, Balda *pas* ‘soleil’ [Bry], Mofu *pás* ‘soleil, jour’, Mafa *pac* ‘soleil, jour, lumière’, Vame *pas* ‘sun’; 7a Skn *pis* [pith or bis] ‘sun’ [DSk], *pis* ‘sun, day’ [ThS: 23]; E 4 Mawa *puusi* ‘chaleur’, cf. Sok *píoo* ‘Sonne’ [Luk].

Deriv. in *-r-* (pl.?): W 1 Hs *fátsàr-fátsàr* ‘noonday heat of the sun’; 6 Duw *puusara* ‘dry season’.

Consider W 2 Mnt *pəyəs*, Grk *pʷəəyəs* as forms in internal *-k-* pl. Alternatively, these (and other) forms could derive from Ch **pVHVç-*. //Cf. Sem Arab *fṣḥ* ‘briller de loin et paraître blanc’ > ‘aurore’ [BK II: 605].

Cf. [GrR] CCh **pitsi* ‘sun’, including Proto-Bata, Lmn and other forms of the **f-t-* structure. For the latters see №324 *(*a)fVti* ‘sun’.

481. *pVç- ‘white; light (colored)’: W Hausa *fátsíi* ‘a lightish-skinned coloured person’; E 5a WDng *pàs-pàs* ‘entièrement blanc, couvert de terre’, EDng *púsíṣày* ‘gris’.

//Sem Akk *peṣū* OAkk on ‘white, pale, bleached’, *peṣū* ‘to become white; to pale’ [CAD p: 328-334], *peṣū* I ‘weiss, hell(grau) (Wolle, Stoffen, Tieren, Fellen, Menschen (Haut oder Haar?)), *pūṣu* (Bab) ‘das Weisse, weisse Fleck’, *puṣū* (OA, OB) ‘Weisses’ [AHw: 857, 883], note Sab *fṣy* (if it really means ‘white’) and discussion in [Bll: 407]. Note Cush agaw Aungi *fúččí* ‘white’ [ApAg].

482. *pu/ič- ‘to spit’: W 3 Krf *fiš-*, Glm *pás-àalá*, Gera *fišíi-mí* [SchB], Bure *pis-*, Pero *píužò*; 4 Paa *písiu*, Diri *pəža*, Jmb *fəš-*, Kar *pəcə*, Tsagu *pəč-* [SkNB]; 5 Bogh *pyas*, Grnt *pasi* [Cs], Zaar *pyaacá* (<*pyaacə*) [CrZ], Buli *píṣən*, Dott *pes*, *pyas* [Cs №751]; E 4 Saba *pise*, Mawa *pičij* ‘to spit’, cf. Ubi *pižij* ‘to spit’, *péčò* ‘humid’; E 5a Mabire *pačawa* [HuJ], EDng *pičē*, WDng *pičè*, Bid *pič*; 5b Kaj *fáčú*. Cf. E 4 Ubi *pačyo* ‘dew’ [HuJ].

Reflexes of *-č-* are not quite regular in W 4. It is possible, that reflexes of ***pu/ič-** ‘to spit’ and ***pVs-** ‘to sprinlke, drizzle, spit’ conflated in some of W 4 languages.

//Sem Ug *wpt* ‘to spit’, cf. Hbr *tpt* ‘spittle’, Akk *wapāšu* OB ‘to insult’ [DUL: 929f], Arab *nft* (*i*, *u*) ‘vomir cracher, jeter dehors la salive’ [BK II: 1304]. Cf. Berb Ntifa *sufs*, Izn *siuffes*, Snus, Ghad *sufes ssufes* ‘cracher’ [NZ: 659].

[JgIb **pṣ* ‘spit’, AA 1 №10: Sem, WCh 3, Berb].

483. *pVč- ‘to be full; to swell’: W 4 Wij *pəč-*, Paa *puču*, Diri *fəču* ‘to swell’ [SkNB], Paa *pičiu* ‘to swell, puff up’ [MS]; C 7 Mbuko *pečepēče* ‘plein à déborder’.

//E Cush Arb *patfa*, Tsam *hotfi* ‘full’ [ATO], *pačč* ‘full thing’ [Hay],
a. **pVč-* ‘many’: W 1 Hs *fáčáa-fáčáa* ‘in large quantities’; C 2 Bura
piči-ku ‘of great quantity’;
 Sem Arab *mafatt-at- (ftt)* ‘multitude, abundance’ [BK II: 542].
 These fragmentary attested isoglosses may follow one AA root (**pč(č)*
 ‘to be full, abundant’).

484. *pič- ‘to wash, to clean’: W 3 Krf *féčči* ‘clean, cleaned’ [SchB];
 C 2 MrgC *pčipčò* ‘washed clean’, *pčinà* ‘to wash’, Mrg *pču* ‘to wash,
 to be cleaned’ [HfM: 29]; E 1 Ngam *piče* ‘blanchir, laver (une chose)’,
 Mobu *péžé* pl. ‘laver qch’; E 5a Bid *pič* ‘administrer un clystère
 (lavement)’, Mig *páčaw* ‘s'éclaircir (ciel)’ (a modified vowel in
 Reflexive). Cf. WDng *pac* *pač* idf. de *ace* ‘laver’.
 Deriv. ‘white (spot): W 1 Hs *fáači*, *fyáči* ‘a blaze down the whole face
 of a horse’; 4 Tsagu *paačahan* ‘white’, cf. Siri *mbiicənni* ‘whiteness’
 [SkNB] (it is not clear, if *mb-* < **mp-* would be regular).

485. *pič'-r- (-r- pl.) ‘urine’: W 1 Hs *fitsáarii*; 4 (metath.) Wrj *cəprái*, Kar *cípír*, Diri *àcəbəlá*, Miya *cəpúr*, Siri *č'ípári* [SkNB], Wrj *cipurai* [BlS], Paa *cipúrá* [MS]; 5 **bVs(Vr)-* < **pič'-r-* (shift of
 emphatization): Bogh *bés*, Buli *bas*, Dott *busaari*, Geji *bási* Guus *bížá*,
 Zaar *bes* [Cs №96]; C 10 Dari *ʒəbūr*, Dzpw *ʒùbūr* [Sa], *čubùr* [JgIb]
 (< **čVpVr*, voicing of -*p*, metath. < **pVč'Vr-*); E 1 Kwn *kó-čor* (< **k-*
čwr < **k-čpVr*, *k-* is a pref. of coll. nouns) [JgIb]; 2 Kaba *čəbərá*, Lele
čóóró (< **čVpVr-*, metath. < **pVčVr-*) [JgIb], Nch *čəbrə* [HmK]; 3 Tum
bəžər, Ndam *būž* (< **PVCVr-*, regular voicing) [JgIb]; 4 Mawa *swari*,
 Ubi *čario* (< *čVwVr* < *čVpar*); 5a Mabire *čora* (< **čpar-*, metath. and
 lenition of -*p-*) ‘urine’ [HuJ], **pidy-* (< Ch **pVč'-*): EDng *pídýé*
 ‘uriner’, *pidyí* coll. ‘urine, sperme’, Mig *píddyi*, Bid *pí'i* coll. ‘urine’,
pi'aw ‘uriner’; 5b Brg *śídýi*, Mubi *fàràdyé* (metath.) ‘urine’ [JgIb].
 For a denom. verb cf. W 3 Tng *sipe* ‘to urinate’. Note *p-č' > č'-p* in
 Chadic languages - in accordance with the law of “rising sonority”.
 //Sem Arab *fazz-* ‘horse urine or water from the stomach of a ruminant’
 [BK II: 613]. Berb Ahag *tafezzə* ‘urine’, Air *tafezzə*, Ghat *čifezzə* ‘urine
 de chameau’ < Arab [NZ: 689]. Note ECush Oromo *finč'an* ‘urine’
 [Grg], SCush Irg *pitsah* ‘collected cow's urine for softing lather’
 [MKQ].
 [JgIb **pṣr*; AA 1 №11 (Arabic, some W and ECh forms)].

486. W **p[i]ž*- ‘bran’: 2 Goem *p’is* [Hlw]; 6 Bade *pəži*, Ngz *bəži* ‘bran’ (regular voicing by assim. with the medial consonant).

For a derived verb cf. Cf. 2 Mush *pus* ‘to separate chaff from grain by using calabash’ (apud [TAS: 294]).

487. **pat*- ‘to drizzle, sprinkle’: W 3 Pero *páažó* ‘to sprinkle’, Krkr *faasò* ‘flowing’ [GK]; C 6 Buwal *pat* ‘to pour libation’; 7 Mbuko *pałay*, Zlg *pał* ‘asperger avec une calebasse’, Muy *pałà* idf. ‘splashing’, Mofu -*pát-* ‘verser à terre (un liquide en libation), asperger’ //Sem Arab *ḥfs* ‘verser, donner (de l’eau) en quantité’ [BK II: 458]. Root extension (*h-* as C₁) in Arabic.

488. *(HV)*pVt*- ‘to peel, pluck’: W 2 Ngas *pées* ‘to pluck feathers’ [JgN]; C 4 Gude *pitə* ‘to pluck seeds from plant one by one’; 5 Pod *pała* ‘to peel off, crack off, décortiquer, arracher’ ; 6 Buwal *pa-pat* (compensatory redupl.) ‘to shell peanuts’; 7 Mada *ápət* ‘décortiquer, écosser, écorcher’, Mafa *papat*- (compensatory redupl.) ‘prendre peu à peu tous des biens de qqn, dépouiller’, Muy *ápəłāy* ‘to shell (peanuts)’; 10 Dzpw *pút* ‘écorcher un arbre coupé’.

Derived noun: ****pVt*- ‘bark’:** C Daba *pápát* ‘l’écorce’; 7 Mada *pałaf* ‘coque, écorce’, cf. Zlg *pałáa-ŋgwad* ‘écorce (d’arbre)’

Deriv. in -*t*- (complete action) : C 7 Mofu -*pəł-t-* ‘(se) séparer, retirer (la main de qqch)’; 6 Buwal *pəł-et* ‘to peel off layers’.

Deriv. in -*d*- : C 6 Daba *pəłā-d* ‘éplucher avec les ongles, enlever la peau’; 7 Zlg *pəłà-d* ‘décortiquer’, Mofu -*pálá-d* ‘écorcher, fendre dans le sens de la longueur (tige)’.

//Sem Arab *ḥfs* ‘péler, ôter l’écorce’ [BK I: 458], Geez *hafaśa* ‘rake up, sweep up’ [LsG: 227].

489. **pVt*- ‘to flatter a woman, to marry’: W 6 GBade *pəłau* ‘to marry’, *pałà*, WBade *pała-n* ‘marriage festival’; C 3 FK *páłá* ‘to pet, love’; 6 Daba *pəł* ‘flatter une femme’.

//Sem Arab *ḥfs* (n. d’act. *hafiša*) ‘témoigner une grande affection à qqn’ [BK I: 458].

490. **PVt*- ‘to abandon, to refuse’: W 1 Hs *fáasà* ‘to abandon the idea of doing smth.’; E 5a EDng *póočé* ‘refuser, ne pas vouloir’, Mig *póočó*, WDng *péečè*, Bid *pòoč*; 5b Brg *fòočí* ‘refuser’.

491. C **pVt*- ‘to worship’: 4 Gude *pəłə* ‘to worship at pagan shrine or fetish’; 7a Skn *pała* ‘ceremonial centre’.

/Sem Akk Bogh *upišu* ‘sorcery, magical machinations, (objects used for magical machinations)’, Bogh *epēšu* (*epūšu*) ‘work, activity; evil magic’ from OB on [CAD u: 179, e: 191].

492. **pV[t]'*- ‘to break, to smash’: W 3 Krkr *pat* idf. indicates striking a blow [GK]; 4 Paa *pitāa* ‘to break, smash’ [MS], Siri *pəłu* (shift of emphatization: **pVt*- > *pəłu*), Paa *piła*, Diri *fəłu* (regressive assim. of *p-*) ‘to break’ [SkNB], Miya *pəłə* ‘to hit, slap’ [Sch]; C 2 Mrg *piłù* ‘to break in pieces’ [Kr], *pəłù* ‘to break (pot, calabash)’ [HfM: 148], MrgC *pląptło* ‘forged’, Bura *pla* ‘to break out, crack or smash’ [BlB], Wmd *piław*, Hildi *piła-na* ‘to break in pieces’ [Kr]; 3 Bana *pti* ‘casser, forger’, HN *płe* ‘to break in pieces’ [Kr]; 4 Gude *pwałə* ‘to break off tree limb’, *pəłáb* ‘squashed, smashed flat’; 5 Glv *pit* ‘to crush, to press, to touch’, 5a Hdi *pəłay* ‘to break’; 7 Mafa *pát-* ‘casser, piler’, Mofu *-pat-* ‘détruire, décimer, casser les branches’, Ould *-pàłay* ‘se casser, s'éclater’, Mol *pat* ‘to break’ [FsM]; 7a Skn *pəła* ‘to break up, smash to’; 10 Azum *pit* ‘the sound of hitting often’, *put* idf. of ‘breaking’.

Deriv. in *-k-*: C 7 Mofu *-páłk^w-* ‘(se) casser (bois, outil), casser une partie de qqch’.

Deriv. in *-t-*: W 6 Bade *pəł-tu* ‘to press out’.

Derived noun: C 7 Muy *pàłay* ‘a piece of broken calabash’, Mada *pałara* ‘tessson, morceau de calebasse’.

/Sem Arab *fdd* ‘casser, romper, briser’ [BK II: 644], Hbr *fss* ‘zerbrechen’ [KB: 772], Akk *puşşû* SB ‘to crush (?)’ [CAD p: 539]. Cf. Arab *fhd* ‘briser, casser’ [BK II: 641].

[JgIb *pł₂* ‘to break’, AA 1 №45 **pəć* ‘to break, pierce’].

493. **pat/t'*- ‘to nail’: C 2 Mrg *pàłù* ‘to nail’ [HfM]; 5 Wnd *pálé* ‘to nail’ [FW].

Deriv. W 6 Duw *pəł-to* ‘to pierce, lance’.

494. **pat/t'*- ‘flat spot’: W 6 Ngz *pálâ* ‘crown of the head’, Duw *palpàł* ‘flat of the hand’; C 4 Gude *pátá* ‘large flat exposed rock’; 7 Mada *pla-tat* ‘plat et large’.

For a metath. see CLD II №89 **tVp-* ‘flat stone’.

495. C 7 **pVȝ-* ‘to close, cover’: Mafa *pilȝ-* ‘fermer’, Zlg *váȝ* ‘boucher, fermer une couverture’.

Derived noun : W 2 Ngas *péel* ‘mud ceiling’ [JgN]; cf. C 7 Mafa *veȝed* ‘balèvre à l’entrée de la maison’.

496. *paz/ȝ- ‘open space’: W 1 Hs *fázayii* ‘any clear open space’; C 2 Bura *pwalȝa* ‘area outside of gate’; 3 FK *peȝai* ‘virgin land’.

497. *p[al]l- ‘to separate’: W 1 cf. Hs *fálán* ‘separately’; C 6 Buwal *pəlax* ‘to take apart’ (pl.?); Daba *pələ* ‘séparer’; E 5a Mig *páaló* ‘s'écartier’, cf. Mig *pilȝò* ‘séparer (avec difficultes)’ (for -aN- pl. in Ch see [BIP]).

Derived nouns: C 6 Daba *pàlə* ‘la partie’; E 2 Lele *pólú* ‘séparation, frontière’.

Cf. W 6 GBade *pàal-tu* ‘to divide, distribute’; E 5a Bid *palák* ‘bifurquer’.

For CCh **pVl/r-* ‘to untie’ see № 544. *(*V)pVr-* ‘to untie, unfold, release’.

//Sem Geez *falaya* ‘separate, divide, distinguish between’, Arab *flw* ‘to wean’, Aram (Mand) *pla*, Jud *ply* ‘be separated, distinguished’, *ply* (hif'il) ‘treat as special, distinguish between’, Ug *ply* ‘be separated, distinguished’, Tna *fäläyä*, Tgr *fälä* ‘separate’ > Cush Bilin *faley* ‘separate’ [LsG: 161], Berb Ahag *tafult* ‘part’, Wlmd, Ayr *tafult* ‘part, portion d'une chose devisée’, Ghat *tafult* ‘part, portion’ [NZ: 563]. Cf. [AA 1 №38 **pl* ‘to cut, separate’].

Consider the next issue as a derivative, note a tenable semantic shift ‘to be separated’ > ‘alone’.

a. ****pal(l)-*** ‘single, alone’: W 1 Hs *fällé* ‘a single one’; 3 Bol *palpal* ‘one each, one at a time’; 6 WBade *palla* idf. indicates exactly one; C 2 Bura *pal* ‘one’ [BIB]; 5-5a Chn *pala* [Kim], Wnd *pálle* [JgIb], Glv *pal*, *pállá* ‘one’, Mlg *pálle* ‘eins, allein’; 6 Buwal *pal* ‘to be alone’; 7 Mofu *pál* ‘one’ (num. en syntagme, *ted* ‘un’, en comptant [BaMo]), Gis *pal* ‘eins’; 8 Makari *pal* ‘one’ [All].

According to [JgIb I: 131], Wandala, Glavda, Mofu and Gisiga forms “are loanwords from Kanuri *fal* ‘one’”. However, relevant cognates, given above contradict to this statement. Note also that replacing of Kanuri *f-* by *p-* in loaned forms would be anomalous.

Some more forms may be cognate: ****pVl-*** ‘to be few, lack’: C 5 Glv *pil*

‘to be deficient, lack, cannot’; E 5 Mabire *pali* ‘peu’ [HuJ]. Derived verb: W 6 WBade *pəlìuu-tu* ‘to reduce’.

498. *pal- ‘to fall’: W 2 Ngas *pal* ‘to stumble and fall’ [Fl], Mghw *pal* ‘to fall > to fail economically’ [BlM], Mpn *pál*, Chip, Mush *pal* ‘to fall’ [JgC, JgO]; Note C 10 Azum *plu-mba*, *plu-ta* ‘to be down-graded (from a high position to a lower one)’.

a. ***p[al]- ‘to lie down’:** W 2 Ngas *paal* ‘to lie down’ [Fl]; C 3 FK *mpələ-bá* idf. describes how so. lies down to sleep stretched out’; 7 Chuv *mépələhèy* ‘s'allonger’. For confusion of semantics ‘to fall’ and ‘to lay down, stretch o.s.’ see Hebrew.

Derived noun: ***paal- ‘bed, sleeping mat’:** W 2 Mpn, Mush *pàal* ‘bamboo bed’ [JgM], Ngas *pal* ‘a bed made of strips of a palm, bored and threaded together, it serves as a solid mat to sleep on’ [Fl], Mghv *pàal* ‘mat from raffia branches’ [BlM], Goem *páal* ‘stem of the raffia palm branches’ [Hlw]; E 4 Barein (dial.) *páalè*, *páalé* ‘bed’.

For W 2 ‘bed, mat’ & SCush **pa[?]al-* wood’ see [TN №394].

//Sem Hbr *npl* ‘to fall, lay down, prostrate’ [KB: 264f], Ug, Aram *npl* ‘to fall’ [DUL: 626] Akk *napālu* ‘to fall’ < WSem [CAD n₁: 277], Cush Sid *ofoll-* ‘to sit down’ [KS: 121].

499. *pal- ‘to break’: W 2 Mpn *pl-āŋ* (pl.⁵⁰) ‘to explode, crash’; C 5 Dghw *pilayà* ‘(rope) broke’ [Kr]; 3 Maaka *piláyò* ‘to break, smash (pot)’ [SvP]; 7 Mafa *pal-* ‘casser (rocher, pierre)’; E 2 Kera *pálwé* ‘zerbrechen, rompre’.

Cf. W 3 Tng *paale* ‘to slap, clap’, Pero *páalò* ‘to slap’.

Deriv. in *-t-*: C 7 Muy *áplát* ‘to split (grains or seeds)’, Mol *pəllay* ‘to split in half’ [FsM], Mada *áplàlà* ‘être écrasé (haricot, arachides)’.

Deriv. in *-k-*: C 10 Azum *poloka* ‘to crack open (nuts)’.

//Sem Arab *flq* ‘fendre, couper en deux’ [BK II: 631], ECush Oromo *folloqa* ‘break off’ [Grg].

500. *pl[u]l- ‘to dig (out)’: W 3 Kupto *füléy* ‘to dig out, gouge out, reveal’, Tng *puule* ‘to break up soil, to raise dust’; C 5 Pod *pələmə* idf. ‘creuser’; 7 Mafa *pul-* ‘déterrer, déraciner’; 8 Log *pil-wun* ‘creuser, hollow out’; E 1 Ndam *pálá* ‘creuser (évider) arbre’; 3 Smr *pól* ‘to dig’ [JgIb].

⁵⁰ For *-aN* pl. in W 2 see [BIP].

Derived nouns: C 5a Lmn *pálámú* ‘(pit)hole, trap’; E 6 Mok *pôlle* ‘fossé, vallée’.

//Sem Akk *napālu* (Oakk) ‘to dig out, to gouge out (eyes); quarry stones, to tear down, demolish’ [CAD n1: 272], Sab *flg* ‘cut a water-channel’ [SD: 44]. ECush dull Dob *póolle* ‘Loch in der Erde’, Goll *poolle* ‘Schlucht, gorge’ [AMS].

For Akk ‘to quarry stones, to tear down, demolish’ see the previous root.

501. *pVl- ‘to protect, care, cover’: W 2 Mpn *piél* ‘to take care, be careful’; 6 Bade *pàlu* ‘to guard, protect’; C 6 Daba *pàlà* ‘protéger’; 5 Pod *pàla* ‘couvrir de chaume; to roof, thatch’; 10 Azum *pola* ‘to guide, shepherd, care for’. Cf. W 2 Goem *póol* ‘to hide smth.’ [Hlw].

Derived noun ‘a cover’: W 2 Ngas *pàlpàl* ‘small round mat’ [Brq]; C 5 Pod *pàlaya* ‘couvercle de vannerie’, 5° Lmn *pàlày* ‘small round mat to cover vessels and winnowing’; 7 Muy *pili* ‘wicker food cover’, Mada *pálya* ‘disque en vannerie, vannerie’, Mofu *pàlay* ‘couvercle de jarre plat en paille tressée’; 10 Azum *polà* ‘large leather shield’, Musey *pol-na* ‘la grand bouclier en peau’ [ShyM]. Cf. W 5 Grnt *pèele* ‘penis sheath’ [Hr].

Note: ‘to defend’ > ‘a cover’ (derived noun) in Arabic.

//Sem Arab *nfl* (i) II ‘défendre’, *nawfaliyy-at-* ‘sorte de voile en étoffe de laine en usage chez les femmes arabes’ [BK II: 1316f]. Berb Ahag, Wlmd, Ayr *efel* ‘être couvert d’un toit’, Wlmd *asefel* ‘toit’ [NZ: 558].

502. *pVl- ‘to search’: W 2 cf. Goem *pil* ‘to watch or look at smth’ [Hlw], Mush *píyél* ‘to search’ [JgO]; C 3 Bana *p(ə)là* ‘chasser, chercher’; 7 Merey *pala*, Mbuko *pélay* ‘chercher’.

Deriv. in *-k-*: C 7 Mofu *-pəl-k-* ‘rôder en cachette, chercher, fouiller’; E 5a Bid *palàk* ‘désirer’. The semantic shift: ‘to search’ > ‘to desire’ seems tenable.

//Sem Akk *palû* (Aram. loan) G ‘durchsuchen’ [AHw: 817], OffAr *pl* ‘to scrutinize, to scan’ > Akk [HJ: 911], Arab *flw* 5. ‘rechercher, examiner’ [BK II: 634].

503. *pVl- < *pwal- < *wVpal- ‘to cork, to bark’ > ‘to shave’: W 3 Tng *pulle* ‘to peel (gr. nuts); to be hatched’, *palle* ‘to peel bark (for medicine)’, Kupto *fulléy* ‘to peel’, Dera *pìulé* ‘to take off clothes’

[NmK], Bol *pelle* ‘shaving the face’ [GAB]; 5 Zaar *pul* ‘to remove the bark of trees, hemp to make ropes’ [CrZ]; C 2 Bura *pwala* ‘to pluck off petals of loosen bark’ [BlB]; E 3 Tum *pāl* ‘éplucher’.

Derived adj.: C 8 Log *plapla* ‘bald’ [AIL], (‘with removed hair’).

Derived noun: E 3 Tum *pūlāl* ‘coquille’.

Deriv. in *-k-*: W 2 Ngas *pwōl-k* ‘to remove bit by bit from a shell’, *pwāl-k* ‘to husk’ [JgN]; 3 Bol *pōl-ku* ‘to peel off, strip off (bark from tree)’ [GAB]; C 10 Masa *pūlōk*, *pūlōt*, Ham *pōlōk* ‘décortiquer, écosser’, Musey *pōlōk*, Lew, Marba *pōk* ‘décortiquer, écosser, éplucher’, Gizey *pōlōk* ‘éplucher’ [LexC], Musey *polokka* ‘écosser, muer’ [ShyM], Azum *puloka* ‘to peel smth off’.

Deriv. in *-t-*: W 3 Bol *pīl-tu* ‘to hatch’ (‘the chicken hatched the egg’) [GAB]. Fot confusion of semantics ‘to peel’ & ‘to hatch’ see Sem Gur.

//Sem Arab *wfl* ‘peler qqch en en ôtant l’écorce’ [BK II: 1578].

a. ***pil(VH)- ‘to cork, to bark’:** C 5 Pod *pəláha* ‘to clean beans’; 10 Dzpw *pilé?*, Dari *pəlē?* ‘décortiquer’;

Derived noun: C 7 Dugwor *pəlō-ŋgwād'*, Mbuko *pəlō-ŋgwād'* ‘bark’ [GrM], Mol *pəlo-ngod'* ‘skin’ [FsO].

Deriv. in *-d-*: C 7 Mol *pəldāy* ‘to shell’ [FsM]; E 6 Mok *pīldā* ‘décortiquer arachides’.

Deriv in *-t-*: C 7 Mafa *pəlat-* ‘écorcher’.

//Sem Geez *falfala* (K*) ‘to shell, pierce’, Amh *fäläffälä* ‘shell (peas, beans)’, Har *filäfälä*, Gur *fäläfälä* ‘shell, hatch out, make a hole by scratching’ [LsG: 158], ECush Oromo *falfala* ‘husk’ [Grg].

504. *pVl- ‘to flow, pour’: C 4 Gude *pula* ‘to flow out’; C 7 Mofu *pálá* ‘verser d’un seul coup’; E 5a WDng *pāllē* ‘asperger’⁵¹, cf. Mig *pilaw* ‘abreuver, to water smb.’.

Derived nouns: a. W 5 Zaar *polpópli* ‘small river running down rocky slope’ [CrZ]; E 5a WDng *pēllēlē* ‘filet d’eau’.

b. ***pall- ‘a flow-through pond, lake’:** W 1 Hs *fálámii* ‘a pond the water of which does not dry up’; 3 Krkr *fālīi* [GK], Bol *pāali* ‘lake, pond’ [GAB], Tng *paali* ‘large body of water (standing or flowing), lake’, Ngm (dil.) *fāali*, *hāali* ‘lake’ [NEH], Pero *pali*, Glm *pāl* ‘pond’ [SchB]; 7 DB *pōlō-k*, Kulere *?apilin* ‘pond’ [RC]; C 10 Ham *pēlēw* (vowel assim.) ‘marigot long’ [LexC]. Cf. [BIL №37].

Derived verbs: E 5a WDng *pālcē* ‘déborder d’un récipient’, EDng

⁵¹ For WDng see [TN №440].

pòčikē ‘déborder’.

//Sem Ug *pl* ‘rieseln, trickle’, Arab (Dozy) *fāla* (*fyl*) ‘vergiessen, rieseln’ [Ais: 255], Geez *falfala* ‘gush out, burst out as a fountain’, *falfal* ‘fountain’, Syr *pal* ‘sprinkle’, “for ‘spring of water’ cp. Tgr *fälfäl*, Tna *fälfalo*, Amh *fälfäl*” [LsG: 158].

a. ****apil-* ‘to wash, bathe’:** W 2 Mush *pla-ŋg* (pl. in *-aŋ*⁵²) ‘to wash’ [JgO], Mghv *pəlaj* ‘to wash’ tr. [JgS] ‘to rinse’ [BLM], Goem *pàlìj* ‘to rinse smth.’ [Hlw], Ngas *palŋ* ‘to rinse, cleanse’ [JgN] W 3 Tng *pali* ‘to bathe’; E 1 Mobi *pélé*, Ngam *péle* ‘se laver’; 2 Lele *pil* ‘se laver’, Kaba, Nch *-pəl* ‘laver’ [HmK], Gbr *pelée*, Dormo *pelenga* ‘waschen’ [Luk]; 3 Ndam *pála* ‘blanchir (laver) une chose’, Tum *pəl* ‘to wash things’ [JgIb]; 5 Mabire *apali* ‘laver qqch’ [HuJ], Bid *?ápàl*, Mig *?ápilò* ‘laver’, 6 Mok *òpilè* ‘to wash’. Cf. W 5 Geji *pólti* ‘to wash’ tr. [Cs №845]. [JgIb **pl* ‘wash’].

505. W 2 **pVl* ‘to sprout, to blossom’: Ngas *pèl* ‘to sprout, bud’ [JgN], Goem *pál* ‘to cause smth to flower or blossom’ [Hlw], Mghv *pèl* ‘to flower’ [BLM], Mpn *pél* ‘to bloom’.

Deived noun: ****pVl-* ‘flower, sprout, child’:** W 2 Ngas *mpèl* ‘blossom, young leaves, sprouts, buds, flower on tree’ [JgN], Mpn *pèl* ‘young shoots of plants’, Mghv *pèl* ‘flower’ [JgS, BLM]; 3 Pero *pilit* ‘flower’, Bol *pili* ‘flower of a male date palm’ [GAB], Kupto *fillè*, Tng *pil* ‘flower’; C 9 Mnj *plapla* ‘fleur’; E 5 Mabire *ta-pil* ‘child’ [JnH]. Cf. C 2 Bura *pilpil* idf. ‘describes a small boy who is well dressed; a youngster who intrudes in the conversation of the elders’.

Derived adj. ‘new, fresh’: W 2 Mush *pál* ‘to be immature’ [JgO], Ngas *pal* ‘unripe; fresh sprouts or bud’ [Fl], Grk *pla-ŋ* ‘young’ [BIY]; 3 Bol *pil* idf. indicates newness [GAB]; 5 ‘new’: Mng *pyele*, *pela-sa*, Tala *pyaalii*, Geji *pyaali* [Cs], Grnt *pyàali* [Hr]; C 4 Gude *pul* ‘very new’. //Sem Akk *papallu* MA, SB ‘young shoot; offspring, descendants’, cf. *niplu* OB ‘offshoot’ [CAD p: 105, n₂: 247].

For WCh 2 ‘unripe’, W 5 ‘new’ + Akk see [TN №439].
[JgIb **pl* ‘flower’].

506. *(*a*)*pVl-* ‘to pay (a debt)’: W 3 Pero *pilù* ‘to buy’; 4 Wrj *pəl-*, Mburku, Kariya *pul-* ‘to pay, ransom’ [SkNB]; C 2 Bura *pili* ‘to ransom’ [BLB]; 5 Mlg *póla* ‘leihen, to lend’, Pod *pəla* ‘to pay back’;

⁵² For pl. in *-aŋ* in WCh 2 see [BIP].

5a Lmn *pəla* ‘compensate (re)pay’ ; Hdi *pəlay* ‘to pay’, (compounds) *pəla-səku* ‘to sacrifice to ancestors to remove the evil in the village’, *pəla-yəj* ‘to sacrifice to God’; 7 Mafa *pál-*, *pil-* ‘payer’, Mofu *-pəl-* ‘rembourser (une dette)’, Mada *ápal* ‘payer, lâcher, régler (affaire)’, Zlg *pál* ‘rembourser’, Ould *-pāl* ‘indemniser, compensate’, Muy *ápál* ‘to pay’; 9 Mbara *púl* ‘to pay’; E 5a WDng *ápilè*, *aplè* ‘rembourser (une dette)’; 5b Toram *‘àfil* ‘payer’.

Deriv.: E 5a Mig *pilkò* ‘payer, rembourser, pay debt’. Note C 2 Bura *pala* ‘to exchange’; W 3 Krkr *fäl-tu* ‘to exchange’ [GK].

Derived noun: W 1 Hs *fáláaši* ‘wages’.

//Sem Akk *apālu* ‘to satisfy a demand; to answer’, *uppulu* ‘to pay a debt’, *apiltu* (MB, SB, NB) ‘full payment’ [CAD a₂: 155f, 169], *napālu* (OA, OB) ‘to make a supplementary payment, to compensate’ [CAD n₁: 275], Arab *nfl* ‘donner qqch à qqn’ [BK II: 1316], Cush Oromo *fuulloo* ‘bridle price’ [Grg].

507. *pal- ‘(flat) stone’: W 1 Hs *fálali* ‘a large smooth rock or stone of about the same height as the surrounding land; a cemented slaughter-place’; 5 Zaar *pā:l* ‘type of flat stone (formely used to make the blade of farming instruments)’ [CrZ]; C 2 Bura *pəla* ‘stone’ [Ann, BlB], *pəla bža* ‘blacksmith’s anvil’, *pəla žinatu* ‘flint, rock’ [BlB], Həba *pelia* ‘white stone used for magic purposes’; 5 Wnd *pala* ‘rock’ [FW], 5a Hdi *pala* ‘stone’, Lmn *pálá ~ páláká* ‘big stone, flat rock’ [Wff], Lmn *pala-k*, Hitk *páláká* ‘stone’ [HmG]; 6 Daba *pápəláh* ‘rocher plat, pierre large et plate’; 7 Mofu *pəlay* ‘pierre creuse utilisée comme cuvette’, Ould *pēlēb* ‘pierre plat’; E 4 Mawa *pəl* ‘rocher plat’.

//Sem Akk *pīlu* (OB, Elam) ‘Kalkstein (Block)/limestone (used as building material, for inscribed foundation stones, for vesssels)’ [AHw: 864, CAD p: 380], Berb Maroco dial. *tifilit*, *ifilu* ‘grosse pierre plat, dalle’, Shawiya *tifilt* ‘pierres qui se débitent en lames et servant de dalles’, Ahag *téfilt* ‘pierre plate’ [NZ: 561]. ECush dull Dob *pala-cakkó*, Goll *pal-takkó* ‘Schabstein der Lederhandwerker (bevorzug Obsidian)/kind of stone’ [AMS]. Note an isolated form in Omotic: SEOmeto Gaṭame *ṗālō* ‘stone’ [BdO: 95].

508. *pal- ‘flatland’: W 3 Krkr *fäl-tò* ‘open space, area’, Bol *pal-ta* ‘gathering place, field, open area’; C 6 Daba *pálā* ‘la plaine’, Mina *páláh* ‘outside’ [FrJ]; 7 Gis *pala* ‘Ebene im Busch’, *papala* ‘Ebene’,

Mbuko *pala* ‘desert’, Mofu *paaláh* ‘plaine, endroit plat’.

a. C ***pal-** ‘flat’: 3 FK *mpələhày* ‘flat’, *mpələhà* ‘dwarf’; 5 Pod *pəlá* ‘plat’, Mlg *pál-téke* ‘flach’.

Note ***pal-** ‘flat’ in the following compounds: C 2 Chb *páplá mà srá*; 5a Lmn *páplé mà srá* ‘Fuss’ (note *sra* ‘Bein’) [Luk]; 7 Merey *pala-bał* ‘nom d'une os, os plat’.

//Sem Ug *pált* ‘f. ‘fallow land, waste land’ < *p'l*, byform of ***pwl** [DUL: 648].

Note Sem Akk *palkû* ‘broad, vast’ SB [CAD p: 67] ~ W 4 Wrj *palakina* (if not <*pala-k-na*) ‘open area of field outside the compound’.

509. *paHal- > pall-, papal- ‘plank, frame’: W 2 Mghv *pwáyál* ‘frame for hanging animals to be smoked’ [BlM]; 3 Bol *pàllo* ‘frame for a thatched roof’ [GAB]; 6 WBade *pàllon*, GBade *pàllau* ‘frame for a thatched roof’ (< Bol?); C 6 Buwal *pápálàm* (compensatory redupl.) ‘plank’; 8 Kus *palo* ‘beam, rafter; plank’ [AIK]; C 10 Dzpw *pàl* ‘claire’. For ‘beam’ cf. W 3 Bol *pà-mpilàm* ‘log, attached to the leg of a mad person’ [GAB]. For Cush ‘stick’ cf. E 5a cf. Bid *pòl* ‘manche de houe, hampe de lance’.

//SCush Irq *paa'ala* ‘sticks (thin) to make a platform or bed with; thin wooden pole, untied stick’ [MQK], Sem Akk *palû* (*pālu*, *pallu*) OB ‘rod’ [CAD p: 74], *palû(m)* ‘eine Stange’ (sum LW) [AHw: 817], Berb MC *tiflut* ‘assemblage de planches qui ferme un passage; planche, porte’, Shilh *iflu* ‘porte; planche’, Rif *tawlawt* ‘planche’, Ntifa *tiflut*, Ahag *taflut*, Figig *taflewt* ‘porte’ [NZ: 573].

For possible cognates of Eg *pjpjt* ‘die Kielbalken des Schiffes’ see [EDE II: 418f].

510. *pVl- ‘(upper) arm > shoulder, wing’: 5 Dyarim *pàlò* ‘wing’; C 1 Boka *pel-fatò* ‘shoulder’ (*fatò* ‘body’), Gbn, Gaa *pèl-*, [Kr]; 3 cf. FK *pèlà* ‘hand’ (rather - ‘arm’, cf. FK *pèlà-pàw* ‘sleeve’, *pèlà-fùá* ‘branch’, i.e. – ‘arm of tree’, while ‘hand of tree’ is ‘leaf’), Higi Moda, HN, Kap *pillà* ‘arm’ [Meek], HB *pìlà* ‘arm’ [Kr]; 8 Kus *pala* ‘wing’ [AIK], Log *mpála* ‘arm’ [Mo: 31]; 10 Gizey *vùn pèl*, Masa, Ham, Musey *pèl*, Lew *pèpél*, Marba *pèpél* ‘épaule’ [LexC], Musey *pella* ‘l'articulation de l'épaule’ [ShyM], Azum *pepela* ‘shoulder-blade’.

Derived noun: ***pVpVl- ‘bat’:** C 5 Pod *pəpála*, Wnd *na-palapala* [Voc]; E 2 Lele *pépéldédi* ‘chauve-souris’.

511. *pVl- ‘knife’: W 2 Ngas *pel* ‘knife for cutting grass, etc., sickle’ [Fl]; C 7 Mbuko *péla-d'* ‘petite lame’; 8 Makari *pil* ‘razor’.

Cf. C 7 Mofu *-pálár-* ‘(se) fendre facilement’; 10 Musey *palaw-ra* (< *plw) ‘to cut meat in pieces’ [ShyM]. A denom. verb?

//Cush dull Harso, Dob, Goll *pillawho*, Gaw *pillawo* ‘Messer’ [AMS].

a. ***pil-** ‘sharp point’: W 3 Tng *pela* ‘pointed wooden tool’, Kupto *fil* ‘pin’, Bol *pil* ‘wooden pins’ [GAB]; 5 Bogh *pilay* ‘spear’ [Cs]; 7 Karfa *fəl* ‘wooden arrow’ [RC]; C 1 Hona *pèla*, Boka *péla* ‘spear’ [Kr]; C 7 Muy *plà-t* ‘broad-headed spear’ (less probably < ‘flat’, cf. №508a); E 5a Bid *pélpèl* ‘lance (grande)’.

Denom. verb: W 5 Dott *pál*, Zaar *pelá* ‘to sharpen’, *peləpelá* ‘sharp’ [CrD, Z]; C 6 Buwal *plav* (< *plap*) ‘to pierce’.

//Sem Akk *apelū* (arrowhead(?); Nuzi, foreign word [CAD a: 169], SOm Ari *pal'a* ‘arrow’ [BnAr], Cush Ong *falde*, Tsam *palde* ‘arrow’s point’[SaT]; Berb MC *tafala* ‘lance, épée, baïonette’, Izns *taffala*, Shilh *tafala* ‘baïonette’ [NZ: 559].

For Berb + Bid see [TN №570].

b. ***pil-** ‘nail’: C 2 Mrg *pil*, Klb *pilu* ‘nail’ [Meek], Bura *mpil* ‘claw, nail of finger or toe’ [BlB]; 3 Bana *p(ə)lā* ‘ongle’, Hya *phəla*, Kap *pla* ‘nail’ [BlH]; 7a Skn *pəla-k* ‘fingernail’; E 5b Jegu *filló* ‘fingernail’.

c. Cf. W ***pil-** ‘kind of coarse grass, spear grass’: 2 Ngas *pil* ‘a strong spiky grass’ [Fl], ‘spear grass’ [JgN]; Mgħv *píil* ‘swordgrass’ [BlM], Mush *pil* ‘elephant grass’ [JgO], Mpñ *pīl* ‘spear grass’; 3 Dera *pépèl* ‘type of coarse grass for mats’, *pili* ‘thatching grass’ [NmK], Bol *popol* ‘type of grass that grows in river beds’ [GAB]; 5 Dott *píilá* ‘weed growing along roads, used to make brooms’ [CrD].

//Cf. Cush Burji *fál-a* ‘straw’ [SsB].

For W 2 ‘spear grass’ < AA *bl ‘reed’ see [TN №288].

512. *pVHVI-/*HVpVl- ‘ashes’: W 4 Wrj *pəlii-na*, Jmb *buli*, Miya *pəli*, Kar *pili*, Mburku *pili* ‘ash’ [SkNB], Miya *pəliy* [Sch]; E 5a Mig *pēelú* ‘tison’. Note W 4 *p-* < ***pH-/*Hp-**.

513 *pVm- ‘to hit, crash’: W 2 Ngas *pam* ‘to flatten’ [JgN]; 6 WBade *pəmu* ‘hit, strike’; C 10 Peve, Hédé *pum* ‘to hit’ [Shy], Dari *pūm*, Dzpw *póm* ‘frapper, battre’; E 4 Barein (dial.) *pámō*, *pámō* ‘to crash’.

//Cf. SCush rift **puhum* ‘to smash grains, pound grains’: Alg *puhum*, Bur *puum* [Kies].

514. *pan- ‘to wash, to bathe’: W 5 Bgh *paanak*, Mng *paan*, *pane* [Cs], Bgh *paanáy* ‘to wash’ tr. [Cs № 845]; C 2 Bura *pérá* ‘to bathe, bath’ [BlB]; 3 FK *pényí* ‘to shower, bathe’; 5 Pod *para*, Gdf, Chn *pàrà*, Dhgw *para* ‘to wash’ [KimG]; 6 Daba *pān* ‘se laver’; 7 Mofu *-pər-*, Mafa *pán-* ‘(se) laver, se baigner’, Cuv *mépénèy* ‘laver’. Cf. W 2 Goem *gə-püŋ* ‘hippo’ [Hlw].

515. *pan- ‘to build, repair, plaster’: W 2 Goem *pàŋ* ‘to build with clay, plaster’ [Hlw], cf. Ngas *pàŋ* ‘sitting arrangement made of stones’ [JgN]; C 5 Mlg *vónya* ‘kleben, reparieren’; E 5a Mig *pánáw* ‘construire, réparer’. Cf. C 10 Dari *pāŋ* ‘attacher’.

a. E ***pin- ‘to work, build, plait’:** 4 Mawa *peniy-ay* ‘travailler’, *peni* ‘travail’, EDng *pinē* ‘faconner, travailler, confectionner un chaganier, un panier, un mur’, Bid *pin* ‘tresser une natte, secco; construire’, WDng *pínè* ‘construire par assemblage (poterie, assemblage de colombines, certain de tressage)’. Cf. W 3 Pero *péndā* ‘to be able’.

//Om Shin *fiin-* ‘machen, arbeiten’ [LmSh].

516. *pVn- ‘to give, to pay’: 2 Ngas *pan* ‘to give, to hand to one’ [Fl], *pən* [JgN], Goem *pini* ‘to give’ [Kr]; 4 Paa *pun* ‘to pay’, *pən* ‘ransom, free’ [MS], Miya *pəna* ‘pay, ransom’ [Sch], Siri *punu* ‘to pay, ransom’ [SkNB]; C 3 HB *pan-do*, HGh *pan-de*, HF *pan-to* ‘to sell’ [Kr]; 7 Baka *par* ‘payer’ [BAS]; 7a Skn *pər* ‘to pay’, *pəra* ‘to sell’.

Derived noun: W 3 Goem *p'yán* ‘trade, price’ [Hlw]

//Sem Akk *panū* s. pl. (a type of payment) OB 95, cf. Arab *fnn* (u) ‘prolonger à qqn le délai pour le payement la dette’ [BK II: 635].

For W 4 Wrj *pəl*, Mburku, Kariya *pul* ‘to ransom, pay’ see №505.

For AA **bn* ‘to give a share’ see [TN №150].

517. *pVy/wVn- ‘to break, beat’: W 2 Ngas *piin* ‘break, divide’ [Fl], *pyan* ‘to break (of many things)’ [JgN], Msh *píin* ‘to break (apart)’ [JgO], Mpn *pīin*, pl. *pyān* ‘to break a round object’, Goem *pyán* ‘break or shatter smth (e.g., a pot)’ [Hlw], *piaram* (pl.) ‘to break’ [Fp], Chip *piyən* ‘to break in pieces’ [Kr], Mghv *piin*, pl. *pyan* ‘to break, split, smash’ [BLM]; 6 Fyer *pyan* ‘to break’; C 10 Musey *poy* ‘to hit’ [ShyM], *póy* ‘frapper un person’ [LexC], Musey, Marba *póy* ‘battre’ [LexC]; E 5a Mig *páano* ‘to beat drum’ [JgIb].

Note W 3 Mghv *pun* ‘to thresh maize’, *puun aas* separation of flour’

[BlM].

Deriv. in *-d-* (directional): W 3 Tng *pay-dε* ‘to tear, break off’. //Sem Akk *pēnu* ‘to crush, grind’ Nuzi (only Inf. attested) [CAD p: 326]. For W 2 see [TN №396].

518. *pVn- ‘to drive, chase’: W 2 Mghv *pun* ‘to eject, evict’ [BlM], Ngas *pán* ‘to chase, drive off’ [JgN], Mushere *pun* ‘to remove, chase’ [JgO]; cf. C 9 Mbara *vini* ‘to send’.

Deriv. in *-g-* (or *-k-*): C 3 FK *vùngá* ‘to send s.o. away unpolitely’, Kap *punge*, HF *punjinto* ‘tp push’ [Kr].

//Sem Geez *fannawa* ‘send away, off, forth’, Tna *fännäwā* ‘release abandon, send’ [LsG: 163]. Accord. to Leslau, EthSem forms are cognate with Arab *fny* ‘turn (away)’, Aram Syr ‘turn toward or upon’, denom. from ‘face, front’. Cf. also Arab *fnn* ‘mener, faire marcher devant soi’ [BK II: 635].

[AA I №26: Ngas-Sem, TN №402: Arab, Mushere, Ngas].

519. *pVn- ‘to cut, to castrate’: W 2 Ngas *pun* ‘to castrate; also used of cutting off the combs of cocks’, Mghv *pùn* ‘beschneiden (Hund, Widder, etc.)’ [JgS], Ngas 7 cf. Fyer *pun* ‘to circumcision’ [RC]; C 6 Buwal *pøy* ‘to cut at an angle’; 7 Zlg *pày* ‘couper’, Mbuko *pànpàn* ‘couper de la hache/houe’; 9 Mulwi *pìni* ‘faire un sacrifice sanglant’. Cf. E 5a Ubi *pannè*, 5b Brg *fàanó*, Tor *fannà* ‘hache’.

//Sem Geez *fanna* ‘cut off the end of a nose’, Amh *fonnanänä* [LsG:162], Som *finiinay* ‘to splinter’ [LIS]. Cf. Eg *pnz* AR a. ‘(den Kopf des Rindes, die Rippenstück) abtrennen, abschneiden’, b. ‘(Haare) ausziehen’ [EG I:510].

For W 2 < AA **bn* ‘to make distinction’ see [TN №150].

520. *pVn- ‘to blow, winnow’: W 2 Mush *pun* [JgO]; 3 Bol *pìn'yu* ‘whistling’ [GAB], cf. *pìn'yú* ‘Pfeifen, whistle’, *?i pìn'yú* ‘to whistle’ [LkB], Krkr *fin'yau* ‘whistling’ [GK]; E 2 Lele *píny* ‘souffler avec la bouche, vanner’; E 5a EDng *pánné* ‘souffler dans’, WDng *pàanè* ‘jouer d'un instrument à vent (flûte, corne de chasse..)’, *púnna* ‘corne de chasse’.

Deriv. in *m-*: C 3 FK *mpónyi* ‘to breathe’, *mpònyi* ‘life’.

521. W *pVn- ‘to think, know’: 2 Grk *impen* [Fp], *k-pòn* [BIY], *pən*

‘to know’ [JgIb], Mghv *pàn* ‘to think, worry, remember’ [BIM], Mpñ *pàn* ‘to think, remember’; 3 Tng *pɔni* ‘to recognize, understand’; 5 Wangdai *pɔŋ*, Grnt *-pin-* [JgIb], Grnt *mpàna* [Cs], *pəni* [Hr] ‘to know’. //Cf. Sem Geez *fayna* ‘to estimate, evaluate’, Tgr *fänna* ‘to explain’ [LsG: 173]. Akk *panu* ‘wish, choise, intention, plan, concern, consideration, opinion’ [CAD p: 84], Eg *p'n* Pyr ‘eine gute Eigenschaft: klug o.a. (vom Menschen)’ [EG I: 504]. Cf. E 5a WDng *pánuwò* (rare) ‘homme habile’.

The following forms may be cognate:

a. ***pan-** ‘**to know (magically)**’: W 3 Tng *pɔnɔn* ‘magic power’; 5 Mng *pày* ‘to tell fortune’ [Cs].

Derived noun: W 2 Ngas *ka-pan* ‘kind of ghost’ [Fl]; E 2 Lele *pányá* ‘spirit of ancestors’.

Derived verb: W 3 Bol *pùn-su* ‘to curse, cast a spell on’ [LkB, GAB]. Cf. W 2 Grk *k-paj* ‘hatred’ [BlY].

522. C *pVn- ‘**to open**’: W 5 Guus *puy* [CrG]; 4 Nzn *pùnà-d* [Kr]; 10 Dzpw *poŋ* ‘to open’ [JgIb] Cf. Muy *prēkā* idf. ‘opening wide’. //Cush Kamb, Alb, Sid *fan-*, Konso *pan-* ‘open’ (acc. to Lamberti < **ban-*) [LmW: 354].

a. E 5a ***pann-/paan-** ‘**to stretch**’: EDng *páanyé* ‘s’étirer les bras’, Bid *paany*, Mig *pánnyó* ‘s’étirer’ WDng *pàanyè* ‘se détendre, s’étirer, se dégourdir’.

//Cush Beja *fenin* ‘ausstrecken, strecken’ [RBd].

523. *pan- ‘**millet stalk (for plaiting)**’: C 7 Mofu *pánay*, Chuv *pándày* ‘tige de mil’; 7a Skn *panay* ‘millet stalk’.

Deriv.: W ***pan-** ‘**plaited obj.**’: 4 Wrj *panai* ‘zana mat, woven fence’ [BlS]; 3 Dera *pándá* ‘mat’ [NmK].

524. W *pan- ‘**fire**’: W 3 Bol *pònò* [GAB], but cf. *fono* [LkB], Ngm (dial.) *fànò*, *hànò* [NEH] ‘flame’; 4 Paa *pàna* ‘fire’ [MS], Miya *ápanà-kú* ‘embers’ [Sch]. Cf. W 2 Grk *k-pòn* ‘to smoke fish’ [BlY].

//Cf. Sem Geez *pānā*, Tna, Amh *fana* ‘lamp, torch’ < Greek *phanē* [LsG: 414], Cush Hamir, Bilin *fanaa* ‘torch’ [RCh, B] < Ethiosem.

a. C ***pin-** ‘**to roast**’: 7 Mafa *pín-* ‘griller’; 7a Skn *pən* ‘to roast’ [ThS: 124]. Cf. W 3 Pero *pún-dò* ‘to cook’.

b. W ***pin-t-** ‘**to make fire**’: W 3 ***pin-t-** ‘to make fire’: Krkr *fintu* ‘to

blow, start fire' [GK], Ngm *fintô* [NEH], Bol *pintu, pittu* 'to kindle fire' [GAB], Dera *pindé* 'to blow on fire' [NmK], cf. Tng *pelde* 'to light fire'.

//Cf. Om Wolt *fen* 'to boil', Gamu *pent*, Dac'e *fent* 'to boil', Kac'ama *pant* 'be hot' [LmW: 355]

525. *pVn- 'kind of fish': W 2 cf. Goem *p'aan* (-a- pl.) 'k of fish (white and shiny color, red tail)' [Hlw]; C 10 Gizey *pinéy*, Masa, Musey *pini*, Lew *pini*, Marba *pini* 'kind of fish (*Chrysichthys auratus*)' [LexC]; E 6 Mok *piunì-só*, pl. *piuní* 'fish' gen.

526. *pang(u) 'stone, rock': W 1 Hs *fángwái* 'a high rock with no protuberances'; 2 Ngas *pang* 'a wall, terrace made of stones and rocks; a very large rocky hill or mountain' [Fl], Mush *pàng* 'sitting place of stone', Goem *p'ág* 'stone, hill, mountain' [Hlw], Mghv *pàng* 'soil type, red and stony' [BIM], *pang* 'stone' [JgS], Mnt *pang* 'stone' [Fp], Chip *pəŋ* 'stone, mountain' [Kr]; 4 Wrj *pangwā-na* 'local curtain or screen made of mud bricks' [BlS]; C 3 FK *pángð* 'rocks'.

//Cf. Sem Akk *panāgu* 'to mount, to cap' EA, SB [BK II: 78].

527. *pun-d- 'thigh': W 3 Pero *pún-dè* 'thigh (of man)', Tng *pùndo*, Bol *pùndo* [GAB], Krk *föndó* Krkr *funto, füntau* [GK], Ngm (dial.) *hündò, hùndo*, Glm *pàndá*, Gera *findí*, Dera [SchV] 'thigh'; C 3 FK *pún* 'thigh' [BIFK].

//Cf. Sem Geez *fandot* 'anus, buttock', Tgr *fändot* 'buttock' [LsS: 162]

528. *par- 'to pluck (fruit, beans, grass)': W 1 Ngas *par-p* (pl.) 'to pluck (of grass, fowls)' [Fp]; 4 Miya *par* 'to pick (beans)' [Sch]; C 5 Pod *palá* 'final weeding'; 6 Daba *pàr* 'enlever en arrachant', 7 Mafa *pár-* 'ramasser, collecter, cueillir', Ould -*pàlày* 'cueillir (des fruits)', Mada *ápal* 'cueillir (haricots), ramasser', Muy *ápäläy* 'pick one by one', Chuv *má:pàlèy* 'to weed (2nd time)', Zlg *papäl* 'to pluck weeds'; 10 Peve *par* 'to pluck' [Vn]; E 2 Lele *por* 'cueillir, déchirer'; 4 Mawa *pərəŋ* 'arracher, décherber'.

Deriv.: E 5a Bid *poròk* 'déplumer'.

//Sem Mhr *frōr* 'to strip a fruit off a tree, bush' [JM: 97], cf. SCush Irg *puru'us* 'to strip off' [MKQ], Alg *puru'* 'to strip off' [Eh: 145].

a. ***p[u]r-** 'to tear': C 6 Daba *pūr* 'déchirer'.

Deriv. in *-k-*: W 1 Hs *fárkà* ‘rip, tear open’, *fárkaa* ‘rip and remove (cloth)’.

Deriv. in *-t-* C **pur-t-*: 5 Pod *pərə-ta* ‘dislocate (a limb); arracher’; 7 Mafa *pur-t-* ‘arracher (dent, racine)’.

For this extention see: C 5 Pod *ta-e* ‘personne’, W 4 Mburku *mur-t'a*, *Jmb amir-t'u* ‘ring’ ('iron-person') and [CLD II №302], note that reflexes of Ch *t* & **t'* have fallen together as *t* in C 5, 7.

Deriv. in – *ç-*: C 5 Pod *pərácá* ‘déchirer’.

//Sem Arab *frfr* ‘déchirer (une autre, etc.)’ [BK II: 582], Berb Qab *fri* (*fry*) ‘déchirer, ouvrir (des boyaux, des tripes, pour les nettoyer)’ [NZ: 648].

529. C **par-* ‘to sacrifice’: 7 Muy *prà* ‘sacrifice, God, spirit’, *pápərá* ‘a sacrifice’, Ould *-pàr* ‘donner (pl. choses)’, 10 Gizey Ham, Lew, Marba *pòr*, Masa *pòr*, *pùrò*, Musey *pòò* ‘sacrifice de purification’ [LexC], Musey *puu-ra* ‘donner un cadeau à qqn qui part pour un voyage’ [ShyM].

//Sem Sab *fr* ‘pay/render tribute of first-fruits’ [Bl: 410], Off, Palm, Jud Aram *pr* ‘to pay’ [HJ: 942].

a. ****par-* ‘to exchange, trade’:** W 1 Hs *fúrfurà* to ‘barter, exchange one thing for another’; 3 Dera *pàré* ‘to exchange’ [NmK]; C 2 cf. Bura *pari* ‘to return (goods)’ [BlB]; 4 Gude *pəra* ‘to exchange; C 7 Mol *par* ‘to pay’ [FsM] 10 Dari *pár* ‘petit commerce’, Musey *paara* ‘faire le commerce’ [ShyM].

Deriv. in *-ŋ* pl.: W 2 Goem *píriŋ* ‘change or exchange smth’ [Hlw], Mpn *pərīŋ* ‘answer, exchange’ Ngas *pyarng* [Fl], *pyarm* [JgN] ‘to exchange’.

//Cf. Eg *prw* MR ‘Lieferungen; delivery’ [EG I: 526], Berb Zng *teffert* ‘cadeau’, Ghad *efer* ‘louer ou acheter’, Wlmd *efer* ‘louer’, Nef ‘salaire’ [NZ: 603]. Cf. Berb Shilh *fru* ‘payer (l'impôt, dettes)’, Maroco dial. *fru* ‘payer ses dettes, rembourser’ (if not < ‘régler, terminer’, as in [NZ: 602]).

530. **pa(?)Vr-* (> *paar-*) ‘to braid a rope, plait’: C 10 Gizey, Masa, Ham, Gizey, Lew, Marba *pár*, Musey *páá* (< *par*, replacing lengthening of a vowel) ‘tresser cord (entre les mains, sur cuisse)’ [LexC], Masa *pàr* ‘tresser’ [CC], Musey *paara* ‘filer, tresser’ [ShyM], Dzpw *pár* ‘filer’, Azum *para* ‘to roll (cotton fibre into a thread), to

make (rope)'; E 5a Mig páaró 'tresser', Bid paray 'tresser une corde', EDng páaré 'tresser (natte, panier)', WDng pàarè 'tresser (une natte, une corde)'.

Derived nouns: a. C 7 Muy párá-pàrà 'cord, belt'.

b. ***pVr-** 'a plaited object': C 4 Gude páəri'íñə 'woven straw pot cover'; E 3 Smr pore 'mat' [Bn]; 5a Mig párpar 'rideau tressé en paille'. //For possible cognates of Eg pry 'Binde' see [EDE II: 474f].

531. *pa(?)Vr- (> paar-) 'to make ridges for planting, to dig': W 1 Hs fàràa-faràa 'making ridges at the end of rainy season for spring sowing; arid soil'; 2 cf. Mush peer nung 'to make ridges of a farm' (apud [TAS: 285]), nung 'piece of land' [JgO]; 6 Ngz páarú 'to make holes with planting hoe to drop seeds'; C 10 Musey paara 'creuser' [ShyM]. Note C 1 Tera (dial.) para 'to bury' [Kr].

Deriv. in -d-: W 1 Hs fàr-daa 'to hoe up groundnuts'; 6 Bade pòr-dù 'to hoe up', cf. Ngz piúdú (< *puddu < *pur-dù) 'to bank up, hoe up or plow up to make hills'; E 5a WDng pòr-dà 'tranchée circulaire autour d'un arbre pour l'arrosoage'.

Cf. W 1 Hs fàrtánya, fàntáryà 'a small hoe with triangular blade'. According to [SKH: 66] < *farT+nya.

//Sem Arab f'r 'creuser (la terre), enterer qqch, cacher qqch sous terre' [BK II: 29], Berb Sened, Shilh afer 'creuser' [NZ: 607].

The next root may be cognate.

532. *pVr- 'to cultivate': C 7 Balda àpūr-s 'to cultivate' [Bry]; 8 Makari fari (irreg. initial, probaly < wfr, cf. Sem) 'deuxième labour du champ' [ALM]; For a noun deriv. cf. W 3 Pero pórò 'work' n., i.e., 'field-work', note ECush Som fal- 'arbeiten, hauen'.

Deriv. in -t-: E 1 Kera pártí 'défricher'.

Derived noun: W 2 Mghv parkiya 'small hoe used mainly for scrapping and weeding' [BLM].

//Sem Geez wafara 'go to a field', wafr- 'field, farm', mofar 'beam of a plough', mufär 'farmland, pasture, village', Tna wäfärä 'go to a field', täwäffärä 'to plough, cultivate', Cush Saho ifär 'go to a field' (< Sem) [LsG: 606], Sab wfr (tfry) 'to cultivate, be cultivated' [SD: 158]; Cush Saho faraa'e 'to dig, to hoe' [Vr].

533. *pir- 'to fly, jump, run away': W Hs fíraa 'to soar into the air';

3 Kupto *firò* ‘to fly’, cf. Krkr *pir* idf. indicates whirring of wings [GK]; 7 Karfa *púrà* ‘to fly’ [RC]; 5 Bogh *piìru* ‘to jump’ [Cs]; C 1 Hona *pøra* ‘to leap, fly’ [Nm]; C 4 Tsuvan *pørø-n* ‘to fly’ [BryJ], Gude *pér* idf. ‘flying away’; 5 Pod *pørørøra* idf. ‘s’envoler’; 9 Mulwi *píri*, Mnj *piri* ‘sauter’; 10 Masa *pír* ‘s’éléver au dessus du sol, bondir, sauter, voler; s’éloigner en courant, s’enfuir’ [CC], Masa, Gizey, Lew, Marba *pír*, Ham *píi*, *pír* Musey *píi* (<*pir*) ‘voler, s’envoler, bondir, sauter’, Gizey, Ham *pír*, Masa *pír*, *pí*, Musey *píi* ‘s’enfuir’ [LexC], Azum *pira* ‘jump, spring up, over’, Musey *piira* ‘voler; fuir, échapper’ [ShyM].

Derived noun: C 7 Mofu *párr*, *pérr* ‘envol d’oiseaux’.

Derived verbs: W 6 Bade *pørdàgu* ‘to escape, run away’; C 6 Buwal *päržök^w* ‘to escape’.

a.****par-*** (pl. in *-a-?*) **‘to hop, jump’**: W 2 Ngas *pyaar* ‘to jump, hop’, [JgN], Mpn *pääar*, Goem *parr* ‘to jump’ [Fl], *páar* ‘to jump or bounce’ [Hlw]; E 1 Mobu *pøre* pl. ‘sauter’, cf. *pare* ‘monter à cheval’; 3 Smr *pár* ‘to jump’ [JgIb].

Deriv.: C 5 Pod *peré-ke* ‘to jump, bound’. Cf. W 1 Hs *fàaraa* ‘locust or grasshopper’.

//Cush Beja *fi(i)r* ‘fliegen’, *far* ‘springen, hüpfen’ [RBd]. Note the similar correlation of vowels in Chadic and in Beja (-i- ‘to fly’~ -a- ‘to hop, jump’). Eg *pry* ‘herforgehen, herausgehen, emporsteigen, hinaufsteigen’ [EG I: 518], Eg *prpr* ‘umherspringen’ [EG I: 532], Sem **prr* ‘fuggire, come in volo’: Ug *pr* (*prr*), Aram *prr*, Arab *farr* ‘fliehen’ [Fron 5.66], Hars, Soq *fer* ‘voler, courir’, Jib *ferr* ‘voler, sauter’ [LsS: 342], Mhr *frr* ‘to jump, fly up, flee’ [JM: 96], Cush agaw Bilin *fir y* ‘to fly’ [ApAg:70], Saho *fire* ‘to fly’ [Vr], Omot NWOMeto Gamo *fir*, Basketo *før*, Dorze *pirap*; SEOm Zayse *para-dd*, *før-*, Yemsa *fuul*, Aroid *far* ‘to fly’ [BndO: 142, 198, 305, 326]; Berb **f-r(r)*: Wrgl *u-før*, Izdeg, Sghr *a-fru*, Shilh *firri*, *farri* ‘voler’, etc. [NZ: 597f].

[Nm **pøra* ‘fly, jump’, Jglb *p-r*; Coh №366; Dolg: 46, GrL: 300, AA 1 №33 **pVr* ‘to fly’, №46 **pVr* ‘to jump’]. For possible cognates of Eg *p^j* (OK) ‘auf-, fortfliegen’ see EDE II: 379-384].

534. **pir-* ‘to drop, throw’: W 3 Krkr *fira* ‘to throw’ [GK]; C 2 Bura *peri* ‘to lay a thing or put down’ [BlB]; 7a Skn *pøra* ‘to drop, throw’ [DSk, ThS].

Deriv in *-t-*: ‘to slide down’: C 4 Gude *pøritø* ‘slip off, slide off’; 7 Mofu *-pørt-* ‘lâcher, laisser tomber, tomber’. Cf. E 5a Bid *per-gèt*

‘glisser d'un arbre’.

Cf. C 7 Mbuko *per-slolo* ‘thrown down’.

//Sem Arab *'fr (i)* ‘jeter qqun par terre et le rouler dans la poussière’ [BK II: 296]; Cush dull Harso *po^č-*, Gaw *pur^č-* ‘fallen’ [AMS], Som *fariisiyey* (Caus?) ‘cause to sit down’ [L1S].

535. *puHVR- > puur- ‘to rub in hands’: W 2 Goem *puur* [phù:r] ‘to rub or twist smth with hands or feet’ [Hlw], Mush *pukur* (internl –k-pl.) ‘to rub’; 3 Tng *pure* ‘to rub smth in hands’, Dera *piùuré* ‘to rub’ [NmK]; 6 Ngz *pòrpòrú*, *fòrfòrú* ‘to roll forth and back between hand’; E 1 Kera *pápré* ‘reiben, zerknittern’.

Derived noun: C 8 Afd *phro* ‘Handmühle, handmill’ [Sol:132].

a. ***pVr- ‘to break’ (tr., intr.):** W 2 Ngas *paarp* (pl. in –p) ‘to smash (with a noise)’ [Fl]; 3 Tng *puure* ‘(to cut or) break smth into pieces’; 5 Bogh *puray* ‘break stick’ [JgIb]; C 3 Bana *prá'wá* ‘se casser en deux’; 6 Buwal *par* ‘to come apart’; E 4 Mawa *əpar-aŋ* ‘démolir (une maison)’.

//SCush rift **puhuru* ‘smashing, pounding’: Alg *puhuru* ‘smashing, pounding’, Bur *puuru* (irreg. loss of –h-), Irl, Gor *puurú* ‘flour’ [Kies: 226], Sem Akk *parāru* (uncert. meaning) ‘to break up, shatter, disperse’ [CAD p: 161], Geez *farafara* ‘to crumble bread’, Aram *parper*, Ug *prr*, Hbr *prr* ‘break’, HbrPb *pirper* ‘crumble, pulverize’, Tgr *färfära* ‘be reduced to powder’, Amh *färäffärä* ‘to crumble’ (accord. to Leslau, Arab *farfara* ‘couper, briser, déchirer’, Tna *färfärä* ‘cut wood or stone into small pieces, break into small pieces’ also cognate) [LsG: 165]; Berb Wlm, Ayr *farfar* ‘se frotter le mains, frotter le cou’, Ahag *fuffer-et-* ‘frotter’ [NZ: 609].

Derived verbs: a. ***pVr-s/c- ‘to crumble, grind’:** C 7 Mada *óprósó* ‘s'émettre, to crumble’, Mofu *-párs-* ‘reduire en poudre’; E 6 Mok *pírzá* ‘écraser (des grains)’.

//Sem Hbr *pāras* ‘break (bread)’, Aram *pəras* ‘divide, break up’, Geez *farasa* ‘be destroyed, demolished’ < Sem ***prc** [LsG: 167].

b. C 5-5a ***pVr-č-:** Gava, Chn *prca*, Glv *prc^č-ga* ‘to squeeze’ [HmG].
c. C ***pVr-t:** 4 Gude *pəratə* ‘to smash up (between stone, teeth)’; 6 Daba *pərāt* ‘casser, briser en deux parties’.

Cf. [AA I №29]. For Ch-Berb see [TN №418].

536. *pVr- (possibly, < *Hpr) ‘to pour, to spit’: W 2 Ngas *por* ‘to

spit (out)' [Fl]; 3 Krkr *fiūru* [GK], Bol *pìūru* 'to spray' [GAB]; 6 Duw *fāaro* 'to spray' (irreg. initial, < *Hpr* ?); C 6 Buwal *per* 'to sprinkle water', Mbedam *péréw* 'to spit (saliva)' [LMb]; 7 Mbuko *péré* 'asperger avec la bouche', Ould *-pèrò* 'verser', *pàrày* 'verser, jeter pl. choses' Mofu *-pápər-* (compensatory redupl.) 'projeter de l'eau avec la bouche, vaporiser de l'eau (sur une natte)', Mol *pəray* 'to spray' [FsM]. Partial redupl.: C 4 Mwl *ùpòrápà* 'to pour' [Kr]; 9 Mulwi *pùrfi* 'vaporiser avec la bouche'; 10 Masa *púrif* 'arroser avec la bouche' [LexC].

Deriv. in *-s-*: C 10 Musey *purussa* 'vaporiser avec la bouche' [ShyM], Gizey, Ham, Musey *púrús*, Lew, Marba *prús* 'arroser avec la bouche' [LexC].

Cf. also: W 5 Plc *pərži* 'to flow' [Cs №767], C 7 Ould *-pèrgè* 'to pour from one vessel to another', *-pərēgē* 'verser dans un recipient; jeter'.

Derived noun: 'rain, rainy season': C 10 Dari *pùwōr* 'pluie' (pl.?) E 'rainy season': 1 Kera *páərú*; 4 Sok *pírdii* [Luk], Bigrit (dial.) *pìr*, *pīrī*, cf. Mawa *purgun*.

//Sem Arab *ʃr* 'arroser les céréales pour la première fois' [BK II: 296].

Note the following correlation: initial *ʃ* in Arabic ~ reduplication of the first syllable in C 7 Mofu.

537. **pVr-* ‘to wrap, turn’: C 2 Bura *pəra* 'to wrap around' [BlB]; 3 FK *pár* 'to wrap, turban', Bana *péró* 'enrouler, envelopper'. Cf. W 2 Mpn *pàréj* 'to turn over' (pl. in *-j* ?).

//ECush Som *foorori* 'to turn smth. over, bend smth.' [LlS], cf. Berb *fry* 'tordre, courber' [NZ: 635].

Derived nouns: a. W 5 Zaar *pəri* 'piece of traditional cotton cloth'; 7 Karfa *àpaar* 'mat, blanket' [RC]; 4 Gude *pírì-tyá* 'handkerchief-like cloth'; E 3 Tum *pár-tà* 'tissu'.

b. E **par-d-* ‘loincloth’: 2 Lele *párdà*; 4 Mawa *parda* 'pagne, couvercule'; 5a EDng *párdà* 'la pagne' (possibly, a loan).

//Eg *pry* Totb 'die Binde' [EG I: 531] > Sem Hbr *pə'ér* 'head-dress, Kopfbinde' [KB: 750].

The following forms may be taken for derivatives (note a tenable semantic shift: 'to wrap' > 'to turn around, twist').

Deriv. in *-d-* (directional aff.): C 5a Lmn *pər-dá* 'to fold (hands)', 5 Pod *pərə-də* 'tordre', *pərə-dá* 'dislocated joint'; 7 Mofu-*párd-* 'se fouler (membre), (se) tordre'.

Deriv in *-t-* (complete action): C 10 Azum *prata* ‘to twist, convulse’; E 1 Kera *pérté* ‘drehen, knicken, tourner, courber’.

Derived noun in *-l-*: ‘to turn, dislocate’ + ‘person’ > **‘a joint’** (see №528): C 3 FK *pír-là* ‘hoof’; 4 Gude *póró-tì-nə* ‘hoof of an animal’; 7 Zlg *pípíri-l* ‘poignet’, Mbuko *vérrž* ‘poignet’.

538. *pVr- ‘to hunt, to search’: W Hs *fáafarà* ‘to persue, chase’, *fárautà* ‘to hunt by a number of people’; 2 Grk *pra* ‘to chase’ [BIY]; 7 Bokos *faar* ‘suchen, jagen’ [JgR], DB *faar* ‘to hunt’ (irreg. initial, prob. < Hausa) [RC]; C 1 Gaa *pàrà-* ‘to follow’ [MN]; 3 Kap *puri* ‘hunting’ [Kr]; 7 Mofu *-pápar-* ‘poursuivre qqn en le disputant’, (deriv.) *-pərh-* ‘chasser, renvoyer, répudier’, Mbuko *péra* ‘suivre’; E 5b cf. Mubi *fàrà-n-gàtá* ‘chasser (animaux)’ [JgM].

Deriv. in *-n-*: W 2 Grk *pra-ne* ‘to drive away’ [Fp]; 5a EDng *pári-yé* ‘chasser, poursuivre le gibier’;

Derived noun: C 7 Mafa *mé-pér* ‘chasse aux oiseaux’; E 5a WDng *pàràm* ‘chasse isolée’, *pàrmè* ‘petite chasse’ > (denom. verb) ‘chasser de façon non organisée, de nuit ou de jour’.

//Sem Akk *páru* (OA (?) OB) ‘suchen’ [AHw: 836], ‘to look for, search for, check, inspect scrutinize’ [CAD p: 210], Om Shin *p'e(e)ra* ‘to hunt’ [BnO: 341], Berb Shilh *furu* ‘espionner, guetter’ [NZ: 603]. [StH: VIII.5].

539. *pVr- ‘to cut’: W 2 Mghv *pyéer* ‘to cut, slice’ [BlM]; 3 Tng *pure* ‘to prepare the field by cutting down trees; to fell a tree’, *puure* ‘to cut (or break) smth into pieces’; 4 Miya *pər* ‘to cut, slaughter’, *papəra* ‘to cut many, slaughter many’ [ShM]; C 3 Hya *prawe*, Kap *prowu* ‘split (wood)’ [BlH]; 9 Mnj *piri* ‘couper à ras de sol’ > *pir-lí* ‘to cut with a sickle’; E 2 Lele *por* ‘couper’.

//Sem Akk *parā'u* (a/jB) ‘durch-, abschneiden’ [AHw: 832], (OA, OB) ‘to cut through, sever, slit’ [CAD p: 181], Arab *fry* ‘tailler, couper’ [BK II: 588], Berb Ghad *efru* ‘être cassé, déchiré; se casser, fendre’ [NZ: 607].

Note the next isoglosses as possible derived nouns.

a. ***p[i]r- ‘kind of razor’:** C 2 Bura *per-ku* ‘razor blade’ [BlB]; 3 Bana *pirà* ‘rasoir, lame’, FK *pírú-kú* ‘razor’; 10 Dari *pərà* ‘throwing knife’; 5a Mig *péérú* ‘couteau’.

b. ***par- ‘sickle’:** C 7a Skn *parpar* ‘ceremonial man's sickle’; E 1 Kera

páará-m (with an a suff. of instruments) ‘sickle’.

//Berb Maroco dial. *tafrut*, *tafra* ‘couteau à manche de bois’, Wlmd *tafrut* ‘petit couteau’, Qab *tafrut* ‘couteau’ [NZ: 606].

Derived verbs: a. **pVrVç-* ‘to cut, split wood’: C 7 Muy *ápùrcāy* ‘to cut up’, *prāc* ‘chip of wood’; E 4 Saba *pirisa* ‘to split wood’, Sok *purse* ‘to split’, Mawa *persej* ‘fendre (ex. bois)’; 5a WDng *pàrsè* ‘couper un branche (au couteau)’.

//Sem Arab *frṣ* ‘couper, fendre en deux’ [BK II: 572], Geez *faraṣa* ‘break open, cut open, split’ [LsG: 167].

b. **pVrVč-* ‘to cut (throat)’: C 7 Mbuko *puroč* ‘manière d'égorger’, Mofu -*párč-* ‘couper (au couteau, à la fauille)’; E 4 Ubi *perže*; 5a Mabire *perče-k* ‘fendre’ [HuJ].

//Cf. Sem Arab *frṭ* ‘percer, crever et vider’ [BK II: 560].

c. C **pVrak-* ‘to split in two’: 4 Gude *purakə* ‘to split in two’; 8 Makari *parak* ‘to cut clean in two’ [ALM]. A loan?

//Sem Arab *frq (u)* ‘fendre et séparer en deux’ [BK II: 582], Old Aram, Jud Aram *prq* ‘to cut off’ [JH: 943].

d. C 6 Buwal *pret* ‘to split’// Sem Arab *farrata* ‘separate’, HbrPb *pārat* ‘split’, Aram-Syr *pərat*, Mand *prṭ* [LsG: 167].

Note W 1 Hs *fīr-dee* ‘to split firewood’, *fār-dā* ‘to slit open the front of an animal, bird, person’ (-*rd-* < -*rt-* ?).

The following forms are cognate (for the link of ‘to cut; & ‘to scratch’ cf., eg., Amh *farä* ‘scratch, carve (wood)’):

W 2 Grk *k-par* ‘to shave’ [BIY//Berb Ahag *əfr-ən* ‘to shave, cut hair’ [NZ: 606].

Derived verbs: E 1 Kera *pírkí* ‘kratzen, to scratch’; 5a WDng *pòrkè* ‘égratigner’.

Cf. C 4 Gude *pùràsá* ‘scar on the back of head’. [AA 1 №28 (ECh only)].

540. **pVr-* ‘to peel, shell’: W 1 Hs *féerà* ‘to pare off outer surface of a rind’; 4 Wrj *puri* ‘to take a portion of the bark off a tree’, *pura-kai* ‘act of...’ [BIS]; C 9 Mnj *piri* ‘éplucher’, Mulwi *píri* ‘écorcher à la hache’; E 4 Mawa *puru-y* ‘to peel, bark’; 5a WDng *pèrè* ‘décortiquer’, EDng *pérè* ‘décortiquer, écosser, écorcher, enlever la peau’, Bid *pir* ‘décortiquer l'arachide’, Mig *píráw* ‘enlever la coquille, le peau’, *páraw* ‘devenir chauve, épiler, devenir lisse’.

Deriv. in -*d-* (directional): E 5a Bid *perèd* ‘décortiquer’. For a derived

noun cf. Bid *pàráada*, EDng *pàrdā*, WDng *pàrdé* ‘écorce’.
Deriv. in -g-: E 5a WDng *pírgé* ‘décoller, écorcher la peau d'un animal, fruit’. Cf. C 10 Dari *pùruk* ‘effacer’.
//Sem Geez *frr*, *farra* (yəfrər) ‘to shell, husk’, Amh *frr* ‘remove’ > *farä* ‘to shell’, Aram (Syr) *par-t-* ‘husk, seed-shell’. According to Leslau, cognate with Arab *frr* ‘to break’ [LsG: 166], Off Aram *pr* pl. ‘bran’ [HJ: 934].

541. *pVr- ‘to say, cry’: W 3 Bol *poru* (plac. *pogiru* < *pokiru*, internal -k- pl.) ‘to say, tell’ [LkB, GAB], Pero *pérò* ‘to announce by shouting’, Kupto *féréy* ‘to say, tell, assert’, Maka *pòráayò* ‘explain’ [SvP]; 4 Miya *paara* ‘cry, to make a cry’ [Sch]; C 2 KlB *pàri* ‘to relate a story’ [MuK], cf. Bura *pəla* ‘to say, speak, tell about’ [BlB]; 9a Gdr *pél* ‘to talk’ [FrG]; E 4 Mawa *pəərəj* ‘discuter’.

Deriv.: W 1 Hs *fúrtà* ‘to speak, mention’, *fírìcii*, *fúrùcii* ‘speech’.
//Berb Ahag *tafirt*, Wlmd *twfwrt*, Ayr *tefirt* ‘mot, qq paroles’, Ghad *tafirt* ‘mot’ [NZ: 608f] < Hs?

542. *pVr- ‘to look, see’: C 7 Gis *por* ‘sehen’, Zlg *pèr* ‘voir, noter, examiner’, Ould -*pəréy* ‘voir’; E 2 Lele *pàr* ‘ouvrir(les yeux)’.
Deriv in -t- (complete action) : C 9 Mlw *pírtì* ‘écarquiller les yeux’; E 5a Bid *pirat* ‘écarquiller les yeux’.

Cf. E 5a WDng *pírnyè* ‘regarder par un trou’.
//Cf. ECush Som *fiiriyey* ‘look at, ponder’ [LIS], Rend *fiiricha* ‘to observe’ [PG]. [HSED №1954].

543. *pVr- ‘fear’: W 5 Tala *pùri*, Zaar *vər-tá* [Cs]. Cf. W 1 Hs *fárfárwà* ‘trembling’.
Denom. verb: C 7 Mbuko *péran* ‘effrayer’; 6 Daba *pàrát* ‘avoir peur’.
//Sem Geez *farha* ‘be afraid, fear’, Eth Tgr *färaha* ‘fear, be afraid’, Tna *färhe*, etc., [LsG: 165f], Cush dull Harso, Dob *fuur* ‘Angst haben’ < Eth-Sem, Arab *nfr* ‘être peureux’ [BK: 1307], Akk *pardu* (fem. *parittu*) ‘frightened, confused’ Mari, SB [CAD p: 182].

544. *(?V)pVr- ‘to untie, unfold, release’: W 2 Ngas *piir* ‘to extend (wings), unfold cloth’ [Fl]; 6 GBade *pàlpàlu*, WBade *pàrpàru* ‘to untangle’; C 1 Tera *pári* ‘to untie’ [NmT]; 2 Bura *mpili* ‘to loosen, untie’ [Ann], KlB *mpəliyà* ‘to untie’, *mpál* ‘to untie, loosen’ [MuK],

Chb *mpili*, Hld *pul-nā*, Mrg *pil-nà* [Kr]; C HN *pil-unte*, FK *p(á)lá-cá*, HB *pilu-ndò*, HGh *pli-nde*, HF *pələ-nto* ‘to untie’ [Kr], Bana *pálí* ‘déplier, détacher, étaler, déballer’, FK *mpál* ‘to untie, loosen’ BlFK]; 4 Gude *pərə* ‘to untie, unfold’, Bch *para* ‘to untie’ [Sk], FJ *pila-bi*, FM *piri*, FBw *pir*, Mwl *ùpùrán* ‘to untie’ [Kr]; 5 Mlg *pála* ‘(sich) lockern, aufknoten’, Pod *pəla* ‘détacher, relâcher, untie, release’, Dghw *pùl-nayà* ‘to untie’ [Kr]; 5a Hdi *pəlay* ‘to untie’, Lmn *pəla* ‘to untie, release, spread’; 6 Daba *pəl* ‘détacher, déplier’, Mbedam *pəl* ‘détacher’ [NdP], Mina *pəl* ‘to detach’ [FrJ]; 7 Mafa *pár* ‘délier’, Ould -*pəl* ‘se détacher’, pl. -*pəlāy* ‘se détacher a plusieurs points’, -*pəlēy* ‘détacher, dénouer’, Zlg *pəl* ‘se détacher’, Cuv *mépəlèy* ‘défaire un toit en paille, délier, étendre’, Muy *épēl* ‘unwind’; 9 Mnj *pili* ‘délier, détacher’; 9a Gdr *əppəla* ‘détacher’ [Schuh]; E 1 cf. Kera *férē* (irreg. reflex of **p-*) ‘losmachen’, Kwn *apre* ‘to untie’; 2 Lele *pōr* ‘détacher, dénouer’, Nch *pure* ‘to untie’ [Nm]; E 4 Mawa *əparay* ‘délier, détacher’; 5a WDng *ipìrè*, Mig *’ipírō* ‘dénouer, détacher’, EDng *ipíré* ‘détacher’, *pìrriyē* ‘dérouler, étendre’; 6 Mok *’èppírè* ‘détacher, libérer, délier’.

Derived verbs: W 6 WBade *pərtu* ‘to unravel, undo woven thing’, Ngz *pərtú* ‘to undo, take apart’; C 7 Mada *áppas* <*apras* (regressive assim.) ‘délier, détacher, découdre, défaire’; E 5 EDng *pirnyē* ‘écarter, ouvrir (écartier la paille pour voir à travers un chaganier’).

[Nm CCh **pira* ‘to untie’, including kotoko *f-l/v-l* [GrR], AA 1 №36 **pr* ‘to untie’ (Tera, Dng, Mig, Nch), for CCh ‘to untie’ see CED №611 **pVl-* ‘to separate, to untie’, TN №442 **p-l* ‘to separate, open, untie’]. //ECush **fur-* ‘to open, free, untie’: Rend, Boni, Dasenech, Burji, Gidole, Konso *fur-* [Ss: 20], Som *furay* ‘to open, divorce, set free, untie’ [LIS], Oromo *fura* ‘to release (from fetters)’ [Grg], Berb Qab *ə-fru* ‘to untie’ [NZ], Sem Soq *nfr* ‘délier, racheter (redeem?), sauver’, Arab *nfr* ‘fuir et se dispercer (se dit d’une troupe d’hommes)’ [BK II: 1307]. The next root may cognate.

545. **pVr-* ‘to begin’: W 1 Hs *fáarà* ‘to begin, start, be the first to do’, *fáari* ‘beginning, first’; C 6 Mina *pár* ‘first’ [FrJ]. Cf. W 3 Pero *péerè* ‘place of origin, source’ (= Pero?).

a. ***(*a*)*pVr-* ‘dawn’:** W 2 Grk *parr* ‘dawn’ [Fp]; C 9 Msg *par* ‘früh, early’ [LkM]; 10 Gizey, Masa *pír*, Ham *píí* (<*pir*, compensatory lengthening) Lew *pipir* [LexC], Musey *piipiira* ‘aube’ [ShyM], Azum *pipira* ‘at dawn’ (compens. redupl.).

Some more verbs seem to be Hausa loans: W 4 Miya *faara* ‘to start, begin’ [Sch], Tsagu *paar n'* [SkH]; 7 DB *fáráy* ‘to begin’ [JgR].

//Cush Afar *fir* ‘Anfang, Beginn’, *fawir* ‘an der Spitze stehen, zuerst tun oder sein, anfangen, beginnen; to begin, start’ [RA], Berb Taneslemt *affar* ‘commencement’ [NZ: 610].

546. *pVr- ‘to separate, choose⁵³ > divorce’: W 3 Tng *pɔr* ‘divorced’; C 6 Mina *palay* ‘to choose’ [FrJ]; 7 Chuv *mépéley*, Mol *palay* [FrM] ‘to choose’; E 5a WDng *párè* ‘se diviser en deux équipes, deux partenaires’, Mig *píráw* ‘séparer (des bagarreurs)’, *?ápíró* ‘to choose’; E 1 Mobi *páaré*, Ngam *pàare* ‘to choose’; 6 Mok *pérè* ‘se séparer, divorcer’.

Cf. C 6 Gavar *parpar* ‘different’; 7 Muy *pràs* ‘in different directions’. //ECush Som *feeraariyey* ‘separate, move apart’ [LJS]. For confusion of semantics ‘to untie, release’ & ‘to divorce’ cf. Som *fur* ‘to open, divorce, set free, untie’.

- a. Deriv. in *-g-*: C 5a Bid *pírgày* ‘séparer’, EDng *pèrgiyē* ‘séparer, diviser, distinguer’.
 - b. Deriv. in *-k-*: C 8 Log *prukun ala* ‘to divide, separate’, *prekel zi a* separate, become separated’ [ALL]; E 5a WDng *pírkiyè* ‘distinguer’.
- //Cf. SCush Irq *paraatl* ‘to separate, put apart’ [MKQ].

547. *par- ‘granary, part of the granary’: W 2 Goem *pàar* ‘barn, platform raised on sticks’ [Hlw]; C 4 cf. Gude *píirá* ‘wall inside granary’; 10 Dzpw *bébé pár* ‘porte’ = ‘hole of the house’; E CF. 2 Lele *páré* ‘kind of cage’; 5a Mig *párá* ‘hangar’.

Deriv in *m-* : C 7a Skn *ma-param* ‘gateway, house of stone’.

//Eg *pr* (Pyr) ‘Haus, Laube aus Rohr, Palast des Königs’ [EG I: 511], Berb Ahag, EWlmd, Ayr *afarra* ‘clôture (haie, mur)’, Ahag *tâfré* ‘petit mur en pierres déchés’, Snus *əfri* ‘to fence’, Rif *affray* ‘haie’ [NZ: 608, 648]. Note Sem Akk *nupāru* (OB) ‘workhouse’ [CAD n₂: 341, Cush Sid *nafara* ‘compound’ [KS: 19]. [AA 1 №30: Eg+Berb].

548. *pur- ‘coarse (thatching) grass’: W 1 Hs *fúrfúráa* ‘a grass used in making mats’; 3 Bol *puro* ‘plant used as fodder, stalks - for roof thatching’ [GAB], Krkr *fúrò* ‘kind of tall grass’ [GK], Kupto *fúròfúrò*

⁵³ For the linking of ‘to separate’ & ‘to choose’ see Sem Geez, Hbr *brr* ‘separate, choose, select’ [LsG: 107].

‘grass sp’ (< Hs?), Pero *púrè* ‘grass for roofing’; 6 Duw *puura* ‘coarse tall grass with fluffy flowering heads, used for thatching’; C 4 Gude *pàrá* ‘grass for mats’. Cf. 7 Mol *mpapar* ‘grass fence’ [FsM]; 2 Bura *parapara* ‘wood stalk of the palm branch’.

//Cf. Berb Shilh, Rift, Qab, etc. *afar* ‘chiendent, crabgrass’, Figig *affar* ‘herbe’ [NZ: 599].

549. *pVr- ‘tendon’ > ‘vein’: W 2 W 2 Ngas *peer* ‘tendon, ligament’ [Fl], *mpéer* ‘nerv, sinew, vein’ [JgN], Mpn *pàar* ‘vein, tendon, muscle’, Mghv *paar* ‘artery’ [BlM], Chip *par* ‘vein’ [Kr]; 7 Fyer *pyer*, Tambas *per*, Mongunafer *a žol* (*žol* ‘hand’) ‘vein’ [RC]; C 2 Mrg *pur-da* ‘vein’ [Kr], Bura *pur-dà* ‘tendon, nerve, blood-vessel’ [BlB] [Kr]; 5 Mlg *párda* ‘Sehne’, Wnd *pur-dà* [Kr], 5a Lmn *prá-tá* ‘vein’ [Wff].

550. W *pu/ir- ‘type of (small) bird’: W 1 Hs *fúrii*, *féeriúu* ‘the name of a small bird’; 3 Bol *piiri* ‘a black bird, that lives in wells’ [GAB], Krkr *fiirii* ‘type of bird, lives in wells’, *fírfír* ‘francolin’ [GK]; 6 Duw *piiri* ‘a black bird, that lives in wells’ (< W 3?), GBade *piiri*, WBade *piirən* ‘starling, oxpecker’.

a. ***pVr-pVr- ‘kind of flying insect’⁵⁴:** W 5 Grnt *pupur* ‘butterfly’ [Hr]; C 2 Bura, Klb *pərpər* ‘butterfly’; 3 Bana *pəlpáli* ‘papillon’; 4 Gude *pér-pípərí-nə* ‘butterfly, moth’; Mlg *napalpala*; 6 Mbedam *məpulpula* [Nd] ‘butterfly’; 7 Mofu *péper* ‘moustique sp.’; 7a Skn *mužə-pərpər* ‘butterfly’; 10 Musey *piipiira* ‘le papillon’ [ShyM]; E 5a Mig *pírpír* ‘moustique sp.’, Bid *papiro* ‘insect sp.’. Cf. W 3 Kupto *für-máa-für* ‘butterfly’.

//SCush rift Irq *piryo* ‘small bird’ [MQK], Sem Geez *fərfərt* ‘quail, (K*) night moth, butterfly’, Arab *fírr-at-* ‘quail’, *furfur* ‘small bird’, Hbr *parpar* butterfly’. Accord. To Leslau, the following forms derive from *frr*, *frfr* ‘to flatter, quiver’: Geez *frfr* ‘thrash about, flail about, move convulsively’, Eth ‘writhe, flop around, agitate’, etc.), Eth Tgr *fərfəräät* ‘a bird’, Amh *fərfərt* ‘partridge’ [LsG: 165], Arab *furfur*, *fírfír-* ‘sorte de petit oiseau aquatique’, *furfr-* ‘passereau’ [BK II: 582]. Cf. Eg *p'r.t ~ p'r ~ pr* ‘Art Geflügel (neben Tauben)’ [EDE II: 431], *pr* OK ‘ein Vogel’ [EDE II: 459].

For Arab-Eg-Hausa see [AA 1 №34].

⁵⁴ terms for ‘small bird’ and ‘moth, butterfly’ are confused also in Semitic.

551. *pVr- ‘kind of stone’: W 2 Ngas *pár*, *pér* ‘type of stone’ [JgN], Goem *pyer* ‘stone for scrubbing the heels’ [Hlw], Mghv *kə-pér* ‘Stein, Kiesel’ (*k-* coll.) [JgS], Grk *k-pàár* ‘gravel’ [BlY], cf. Mpñ *pēer* ‘term for any light-coloured stone’; C 3 Higi Humsi *pere*, Higi Moda *pirre* ‘stone’ [Meek], HB *pire*, FK *péri*, HN *pùre*, Kap *pùre* ‘stone’, HF *pìre* ‘mountain’ [Kr], cf. 4 Bch *fara* ‘stone’ [Meek]; 7 Mafa *ínpá-pár* (pl.) ‘pierres plates’, Chuv *pèrà* ‘pierre plate’.

Deriv. in *-d-* (= suff. of sing., cf. Mafa) ‘flat rock’: C 7 Mafa *pórá-d* ‘rocher plat’, Merey *pəla-d* ‘rocher’, Mada *pla-d*, Muy *plá-d* ‘flat rock’, Ould *pələ-d* ‘grand rocher plat’, Mol *pəra-d* ‘lage rock’ [FsM]. Cf. E 1 Kera *pór-kí* ‘stone, mountain, hill’.

//Cf. Sem Arab *fîhr-* ‘pierre assez grande pour remplir tout la main et avec laquelle on casse les noix’ [BK II 641].

552. *pVr- ‘shoulder’: W 5 Bgh *pàràp dwai* ‘wing’ (*dwai* ‘bird’) [Cs]; 6 Duw *pàrdā*, WBade *pârdā-n* ‘shoulder’; C 7 Baka *piperi* ‘épaule’, Muy *pérēpérā* ‘shoulders’, Chuv *pàr-kʷùlā* ‘aile’; E 3 Tum *pèr* ‘shoulder’, (*dərī*) *pərá* ‘wing’ (‘bird’ + ‘shoulder’); 5b Brg *férfer* ‘shoulder’.

Cf. №510 *pVl- ‘(upper) arm > shoulder, wing’.

553. *pVr- ‘boat; paddle’: C Glv *pérà* ‘canoe’, Wnd *pere*, Chn *pere* ‘boat’ [Kr], Lmn *páré* ‘boat’ (also ‘wooden board, door’) [Wff]; 9 Mbara *pérè* ‘side of a canoe’; 10 Masa *púrá*, Musey *pereyya* ‘paddle’ [ShyM], Azum *prau-na* ‘paddle (used with canoe)’; E 1 Kera *paara* ‘Ruder, paddle’. For Lmn ‘board’ cf. C 4 Gude *párálwá* ‘wooden bed without legs’.

554. *pVr- ‘harmattan, fog’: W 2 Hildi *parəw* ‘storm’ [Kr]; 4 Bata *púrā-tò* ‘cloud’ [IL]; C 8 Kus *pori* ‘fog’ [AlK]; E 4 E 4 Mawa *pur-na* 5a Bid *pàrūurùŋ*, Mig *pàrlúm* ‘brouillard’.

a. C ***pur-d/d-** ‘harmattan, fog’:

- 2 Hildi *purdə*, Bura *purdu*, Chb *mpurdū*, Mrg *pirdū*, Ngwahi *purdo* ‘fog, harmattan’ [Kr]; 4 Mwl *pòrdī* ‘cloud’, *púrdùò* ‘harmattan’ [Kr].

555. *pVr- ‘child, boy’: W 2 Ngas *paar* ‘infant, baby’, *yem maa paar* ‘a suckling lamb’ [Fl], cf. Kofyar *pár* ‘to be in labor’ [apud [TAS: 281]]; E 1 Kera *pur* ‘Junge, garçon’; 5a Bid *pàrpàr-gú* ‘jeune garçon’,

EDng *pòrpóričé* ‘jeune homme pas encore pubère, pas encore nubile’. Cf. W 3 Bol *pirpir* idf. ‘a child who is small but clever’ [GAB].

//Sem Akk *nipru* SB ‘offspring’ [CAD n2: 247].

Note that Proto-WSem **piry-* ‘fruit’⁵⁵ is hardly an immediate cognate. Cf. Eg *pr.t* AR ‘Frucht o ä’, A. ‘Frucht einer Pflanze’; B. ‘Same = Nachkommenschaft /seed = descendants’. For all possible cognates of Eg *pr* see [EDE II: 559-462].

[Coh: 169, Isv: 26].

556. *pVr- ‘kind of (big) fish’: W 1 Hs *f/húrà* ‘the name of a fish’; E 1 Kera *párwá* ‘big fish’; 5a EDng *pārpīrā* ‘la carpe’ WDng *párpo* ‘fish’ gen.

Cf. W 1 Goem *pwár* ‘to fish or take smth from water’ [Hlw], 3 Kupto *fártè* ‘fishing (festival)’.

//Cf. Sem Akk *purādu* ‘carp’ Mari, SB [CAD p: 516].

557. *pVr- ‘white’: W 1 Hs *fárii* ‘white’; 3 Tng *perɔ* ‘white-wash, white earth, chalk’; 5 Zaar *paraat* idf. ‘white’ [CrZ]; C 2 Klb *pərtù* [MuK], Hld *pùrtu*, Mrg *pirtù* [Kr] ‘white’; E 3 Tum *pūrī* ‘blanchâtre’, cf. ‘briller’; 5a Mabire *pororan* [HuJ], EDng *pùr-tà* ‘blanc, clair, immaculé (symbole de la joie)’, Mig *pùrtà*, 5b Brg *föróorà*, Mubi *férét*, Jegu *pórórân* ‘white’ [JgIb].

Denom. verb: W 1 Hs *fáràntaa* ‘to whiten’; E 5a WDng *so-pire* ‘devenir blanc’ (Caus?). Cf. C 7 Muy *prəbzprəbz* ‘shining’.

//Sem Akk *parütù*, *paruttu* (a type of alabaster) MB Emar [CAD p: 211].

[JgIb **pr*, for Hs-Mrg-Mubi see ISv: 24].

558. *(HV)pVr- ‘red’: W 2 Mush *paar* ‘redness’ (meaning uncertain, apud [TAS: 281]); 3 Tng *pɔrɔl* idf. ‘redness’; 5 Buli *mè-piriŋ* ‘red’ [Kr]; C 6 Buwal *vɔrè* (< **H-pVr-*) ‘to be red’, Daba *pírèn* ‘rouge, rougir’, Musgoy *párrey*; 9a Gdr *pepréye* (compensatory reduplication (< **H-pVr*) [Mo: 37] ‘red’; E 3 Ndam *pàré*, Tum *pàrī* ‘rouge’, *pà* (< *par#*) ‘être rouge’; 5 WDng *pòróny* ‘rougeâtre’).

//Sem MSA *‘*pr* ‘red’: Soq ‘áfer, Mhr ‘ófer, Jib ‘ófer ‘red’, Arab ‘afira ‘avoir le pelage rougeâtre’ [LsS: 320]. Cf. Geez *ferä* ‘pestilence,

⁵⁵ Ug *pr* (*pry*), Hbr *pərī*, Geez *fəre*, etc. [Kg: 201].

plague' (T: 'blood') [LsG: 165].

Deriv.: ***H-pVr-(m)- ‘blood’**: W 4 *pəram- (< *HpVr-m-, note -m- as a body-part' marker): Siri pəramí, Mburku pərəŋ, Miya péràm, Jmb béraramá [SkNB], Miya pəram [Sch]; 5 Kir pirəŋ, Tala prà [Smz], Grnt bàran, Jimi biram (*b-* < *-p-*) [JgIb], Mng puruŋ [Cs], Plc burán, Zul bəraani [Cs №45], Dott bəraan [CrD], Zaar vòrəŋ [CrZ], Buli pirinj [Kr]; C 1 *f/vVr- < *HpVr-: Tera (dial.) vər, Gaa fera, Gbn fere, Hona farà, Boka fwùra [Kr]; 9 *fVl- (< *HpVr-) Msg feel [LkM], Mnj fèl, Mbara fàl; E *bVr- (< k-pVr-): 1 Kera kor (< *kV-bVr- < *k-pVr, note *k-* as a suff. of collective nouns), Kwn kú-wáar < *ku-bar [JgIb]; 2 Kaba ka-brə, Nch ku-bra [HmK]; 3 Tum bà (< *-bar#), Smr bàre, Ndam bā:r [JgIb]; 4 Barein (dil.) baar-; 5 Mig báará pl., WDng bààr pl. coll., EDng báari pl., Mabire bar [JnH], 5b Kaj ?àbàr, Jegu bar, Brg bàrà, Mubi òbòr [JgIb].

Derivatives: W 5 Buli mè-piriŋ 'red' [Kr]; E 5a Bid baar 'rougir'.

//Cf. Cush Agaw *bər- 'blood': Bilin Hamir, Kem bər, Awiya bəri, [ApAg], Arb burri 'red' [Hay]; Omot Shin birá 'rot' (Cush and a few Chad parallels) [LmSh].

[JgIb *br , Nm *bar 'blood'].

559. *pVr- ‘many’: W 1 Hs fàri 'in large numbers with intervals between them', fàràrà 'in immense numbers; of immense area'; 6 Duw pəra 'all'; C 7 Mada pépér 'en grand nombre'.

//Sem Arab wafr- '1'abondance, richesses; nombreux' [BK II: 1575].

a. C ***pir- ‘to fill, (be) full’**: C 3 Kap pire 'to fill' [Kr]; 6 Buwal péré péré '(be) full to overflowing'; 8 Makari per 'full' [AlM].

Fragmentary isoglosses./ Фрагментарные изоглоссы

Chadic *b-

1. C **bVy/w-* ‘to wait’: 3 FK *mbúé* ‘to wait’; 7 Mbuko *bà* ‘attendre’; 9 Mbara *biyi*, Mj *biyi* ‘attendre’, Msg *be* ‘warten’ [LkM] //Cf. Sem Arab *bwy* ‘s’arreter, faire halte dans un endroit’ [BK I: 181].

2. **bVy-* ‘white(wash)’: W 5 Dott *biyu* ‘white coloured earth used to plaster walls’ [CrD]; C 8 Makari *boya* ‘lime, whitewash’ [ALM]. //Cf. Eg *by.t* ‘Bezeichnung des Alabasters from Hatnub’ AR, MR [EG I: 433].

Cf. №20**bVw-* ‘milk’, 20a. **bi'w/y-* ‘white’.

3. **baw/y-* ‘(to) bark’: 1 Hs *báawóo* ‘bark, shell, rind’; C 6 Buwal *bāw* ‘to peel away’.

4. W 2 **HVbwVp* ‘kind of fish’: Ngas *bwoop* [Or], *buup* [Fl], *mbup* ‘fish’ [JgN], Mpn *púpwáp*, Mghw *púpwáp* (compensatory redupl.) ‘fish sp.’ [BlM]. //Eg *wbbw* MR ‘Art Fische’ [EG I: 172], Soq *‘aabā* ‘a carp-like fish’ [EDE II № 27], Cf. C 8 Log *bwabwa* ‘fish’; E 4 Sok *buuwi* ‘fish’ [Bn] //Eg *bw.t* AR ‘Art Fish’ 453, // EDE II 175

5. W 3 Grm *bèeyí* ‘horn’ [SchB]// Eg *‘b* ‘das Horn’ 173 (NR ‘Stachel des Skorpions); a. W 1 Hs *bóoyóo* ‘a spear’; 7 Fyer *bubo* (compensatory redupl.) ‘spear, lance’ [RC] //Eg *‘bb.t* MR ‘Speer’ [EG I: 178].

6. C **bVd-* ‘to deceive, flatter’: 5 Mlg *báda* ‘verführen, täuschen; to seduce, deceive’; 7 Muy *ábàdāy* ‘to flatter, trick’. Note C 7 Mafa *mbid-* (<*bVdVH-*) ‘tromper’ //Sem *bd?*: Hbr *bādā* ‘inventer, imaginer’, Aram JP, Syr *beda* ‘inventer, mentir’ [DRS: 44], Off Aram *bd?* verb. poss. meaning ‘to devise falsehood’ [HJ: 144], Soq *béde* Mhr *bedú* ‘mentir’ [LsS: 82].

7. **bud-* ‘duiker’: C 6 Daba *bùdà* ‘cob de rosseau’; E 6 Mok *búdísó* ‘duiker’[Jglb]
//Cush Afar *be'idaa* Sa id, Som *be'id*, Das *beza*, Antilope oryx‘]RAf],

8. C **bud-* ‘tax’: 2 Mrg *búdù* ‘tax’ [HfM: 22]; 7a Skn *budə* ‘tax’.

For a possible deriv. in *m-* cf. C 5a **m-bVd-* ‘to count’: Hdi *mbəday*, Vemgo *mbadā*, Lmn *mide*, Gvoko *məda* [CH].

//ECush Som *baad* ‘tax, tribute, protection money’ [LIS]

9. **bVd-* ‘reed’: W 3 Tng *bada* ‘stalk, reed’, Bol *bàdà* ‘round cornstalk hut’ [GAB]; 4 Miya *bàday* ‘large basket’ E 2 Lele *bùdū* ‘réciipient en vannerie’.

Denom. verb: C 4 Gude *mbəədə* ‘to weave grass stalks’.

10. C **but-* ‘to be without’: C 5 Pod *búta* ‘gencive sans dent’; 8 Log *bútu* ‘leer, nakt’ [LkL].

Deriv.: W 6 Fyer *bubwàt* ‘verlieren, to lose’ [JgR].

11. W **bVt-* ‘gourd’: 1 Hs *búutà* ‘water-jug, a bottle-shaped gourd’; 3 Gera *mboota* ‘gourd’ [SchB]; 3 Tng *báte* ‘gourd’ //ECush ‘pumpkin’: Oromo *bota* Tsam *boote*, Gol *poote* [AMS], Arb *bóte* [Hay].

a. **bat-* ‘kind of vessel’: C 7 Ould *mbàt* ‘poterie sacrificielle’. Cf. E 5a EDng *bàt-kā* ‘le tesson de poterie’.

//ECush Brj *bóta* ‘big pot’, Had *baat-a?a* ‘a very large clay pot’ [SsB], Afar *búti* ‘Kochtopf’ [RA].

12. W 2 **bVt-* (< **bVt-*) > **bVkVt* (internal *-k-* pl.) ‘to tie, to imprison’: Ngas *baat* ‘to tie, bind’ [Fl], *baat* ‘to tie, bundle up’ [JgN], Mghw *bwayat* ‘to tie, imprison’ [BlM], Goem *bóot* ‘to tie or bind smth, wear smth (by tying), imprison’ [Hlw], Mpñ *bwāat*, Mushere *bwakat* ‘to tie’ [JgO], Mnt *baad-ni* ‘to bind’ [Fl], Chip *bòkət* ‘to tie’ [Kr].

Derived noun: Ngas *baat* ‘the webbing made by the Angass used as girths or breast straps’ [Fl], Mghv *bwàyàt* ‘bundle’.

//Sem Akk *ebētu* ‘to be tied, girt; to have cramps’ OA, OB on [CAD e: 13], Aram Mnd *abt* ‘bind, hold fast’ [LsG: 55]. Cf. ECush Oromo *battee* ‘rope’ [Grg].

13.bVt-* (< **bVt-*) ‘anus, bottom’:** W 1 Hs *bíutiyyaa* (*bVt-<*bVt-*) ‘anus’; cf. Cf. C 5a Lmn *mbùt-* ‘bottom’ [Wff].

//Sem Aram (mand) *buṭa* ‘anus, derrière’ [DRS: 51 *bwṭ*], Berb Nef *buta* ‘anus, derrière’, Fig *bud* ‘fesse, anus’, Izn, Cha Snus *buḍ* ‘fond’, Mzab *buḍ* ‘fond, cul’, etc. [NZ: 28f].

14. W **bVg/g-* ‘to search, look for’: 1 Hs *bàgoo* ‘surrounding anyth it is desired to catch; lurking, lying in wait’, 5 Bogh *bayṣyéi* ‘to

look for' [Cs №713].

//Sem **bgy*: OldAram *b‘y* ‘to search for, look for, want’ [JH: 180], Hbr *b‘y* ‘to inquire’, Arab *bgy* ‘demander, désirer une chose’ [BK I : 147], Mehri *bgy* ‘to desire’ [JM: 44], etc. see [DRS: 76]. Cf. [TN №103].

15. C **baw-* (< **bVH-*, see below) ‘to gather’: 4 Mwl *úbòwò* ‘to gather’ [Kr]; 10 Dzpw *bá* ‘ramasser, entasser’.

//Berb Nefusa *ebbi* ‘ramasser, cueillir, récolter’ [NZ:144].

a. C **bVh-* ‘to gather, be plenty’: 2 Bura *buha* ‘to gather things at one spot’ [BLB]; 3 FK *bàbabàxà* ‘plenty, several’; 7 Mada *mbàáh* ‘à flots, en foule’.

16. C **bVy-* ‘to be(come) warm’: 6 Buwal *bōxʷbōxʷ* (*bVxbVx* > *bVxbVx* > *bVxbVx*) ‘to be warm’; 3 Bana *bàyà-żì* ‘se chauffer’.

17. C **buhʷal-* ‘deer’ : 7 Mafa *búhʷál* ‘biche sp.’, Cuv *pəhʷòl* (regress. devoicing) ‘biche’; 10 Lew *bùhù*, *búhʷál* ‘biche sp.’ [LexC]. //Cf. Berb Ahg *abaxul* ‘chameau de charge’, Ghat *abaxul* ‘vieux chameau’ [NZ:141. For the origin of Berb forms see [Bel, № 34, ctp. 99-101].

18. C **mbVgVw/y-* ‘pumpkin’: 5 Mlg *mbégʷa* ‘Kurbis’; 8 Kus *mbeigu* ‘pumpkin’.

//ECush Ong *bagaye* ‘small portable container for water’ [SaT].

19. **bVg-* ‘kind of food (made with flour)’: W 1 Hs *bágaayii* ‘a food which is made with bulrush-millet flour’; C 9 Msg *bɔg* ‘Mehlbrei’ [LkM].

20. E 5a **bag-* ‘to dry, to become old’: WDng *bàgiyè* ‘sécher (feuilles), dev. vieux’, Bid *bàgiy-àŋ* m., *bàgáy-ma* f. ‘vieux, âge’.

//Sem Geez *baggʷa* ‘be the dry season’, “probably a denom. from Amh *bäga* ‘dry season’ in a reconstructed Geez form” [LsG: 88].

21. C 3 **m-bVg-* ‘spear’: HF *mbùgà* [Kr], Higi Moda *mbaga* ‘spear’ [Meek].

//Sem Arab *bgg* ‘percer (avec une lance)’ [BKI: 85]; Berb Shilh *bgu* ‘percer, trouer, creuser’ [NZ: 33].

22. W **bVg-* ‘to lie, liar’: 1 Hs *biigaa* ‘a liar’; 3 Tng *bugε* ‘to deceive’.

//Sem Geez *bagbaga* ‘caluminate, slander’ (without reliable cognates

in Semitic) [LsG: 88].

23. C *bak- ‘to watch’: 3 FK *bàkà* ‘to watch’; 7 Mofu *bák* ‘regarder (un jeune homme)’.

//Cf. ECush Oromo *beek*, Gide'o *beek-* ‘to know’ [LmSh].

24. C *bak- ‘to shine, to bloom’: 7 Ould -*bàkò* ‘briller, fleurir’, Mada *óbbòkwó* ‘fleurir’;

a. C 7 Mada *àbàk* ‘jour’; 10 Dari *bèkà* ‘jour, matin’, Dzp *bègà* ‘matin’.

25. C *(m)bV_k- ‘hen’: 3 FK *mbàká* ‘duck’, *mbákwàná* ‘hen’; 7 Gis *bokoy* ‘Hahn’.

Cf. W 2 Mpn *bwák* ‘to peck’ (a denom. verb in ?a-?)

//Om Shin *baaka*, Kaffa *bakko*, Sheko *bakku*, Ari *baca* ‘Hähnchen’, cf Cush Hadiya *anta-bakkiččo* ‘Hähnchen’ [LmSh].

26. C 10 *bV_k- ‘vulture’: Azum *àbaka* ‘species of eagle’, Dzpw *bòk* ‘marabout, vautour’, Masa, Musey *bak-*, Peve *bwok* [Shy], Mesme *bok* [Kr] ‘vulture’. Cf. 9 Mgs *begéš* ‘vulture’ [LkM].

//Eg *byk* ‘die Falke’ [EG I: 444]. Cf. [HSED №356, EDE II: 149].

27. W 2 Mghw *búk* ‘fine dust’ [BlM]; 3 Gera *bùbùkà* ‘dust’ [SchB].
Ch forms may be of different origin, note: Sem ?*bq* ~ Cush **buko*.

//Sem Hbr ?*ābāq*, Aram Syr ?*abqā* ‘poussière’ [DRS: 4], PHEC **buko* ‘dust’: Sid, Gede'o *bukk-o*, Burji *buho* [Hds], Berb Ghd *tabékka* ‘poussière de terre desséchée’, Ahag *taboqqa* ‘poussière’ [NZ: 46, 85].

28. *bV_k- > *bV_k- ‘to nail’: C 7 Mada *ábak* ‘clouer, fixer’.

Derived noun: E 2 Kera *bəkay* ‘harpoon’

//Sem Arab *baqa'a* ‘to pierce’ [LsG: 100].

29. *bV_{k(w)} > b_u/ok-: W 3 Ngm *bùkò* n. ‘spring (water)’ [NEH]; E 5a Bid *bok* ‘jaillir’.

//Sem Arab *bqq* ‘verser beaucoup de pluie’ [BK II: 148], Cush agaw **bəqw-* ‘flow, pour out’, ECush Som *buq* ‘source of stream; spring’ [LIS].

30. *bis(s)- ‘to marry’: W 3 Bol *bissu* ‘to marry the wife of a deceased older brother’; C 8 Zina *bísà* ‘to marry’.

//Cf. Sem Arab *bs'* ‘devenir familier, intime avec qqn’ [BK I: 124], cf. Cush Arb *bays-* ‘sister-in-law’ [Hay].

Note **bus(s)- ‘to divorce, drive away’*: C 10 Mus *bussa* ‘rompre une alliance ou une amitié; divercer, la divorce’ [ShyM]; E 1 Kera *bùusi*

‘divorcer, répudier, sich scheiden, verstossen’.

31. *bas- ‘**health, strength**’: W 4 Paa *bàsá* ‘health’ [MS]; E 2 Gbr *basua* ‘stark’ [Luk]

//Sem Arab *ba'usa* ‘be strong’, Geez *ba'sa* ‘grow (mature), be strong’ > *ba'əsi* ‘man, male, husband’, *ba'əsit* ‘woman, wife’, Tgr *ba'əs* ‘husband’ [LsG: 83].

32. *bus/c- ‘**haze**’: W 3 Gera *bùsá* ‘haze’, Glm *bùuzzà* ‘cloud’ [SchB]; E 2 Lele *búsú* ‘brouillard’.

//Sem **bws* (AA **bwc*) > Tgr *busay* ‘bruine, brouillard’ [DRS: 52].

33. C 10 *bas- ‘**sister**’: Ham, Masa *bàs*, Lew *bás* Gizey *bàsù*, Masa *bà/ùsù* [LexC].

///?? Eg *hbsty.t* MR ‘als Bez. der Ehefrau, der Konkubine’ [EG III: 66].

34. C *bas- (< **Hbs*/**bHs*) ‘**to assemble**’: 3 Bana *bàsə* ‘se réunir, rassembler’, *bàsəvà* ‘reunion, collection’; 6 Daba *bàs* ‘assembler, ramasser’, Buwal *bèc* ‘to assemble’.

35. *bac- ‘**to harvest**’: C 6 Daba *bac* ‘cueillir (fruits, arachides)’; 7a Skn *bac* ‘to harvest’. Cf. C 8 Mak *başı* ‘to pluck (chicken)’ [AlM]. Derived noun: W 3 Dera *básà* ‘harvest season’ [NmK].

36. *baz- ‘**to spread, scatter**’: W 1 Hs *bázà* ‘to spread thing out to dry’⁵⁶, *bážè* ‘to remove by scattering’; C 3 FK *mbwàzà* ‘to scatter’ //Sem Hbr, Aram *bzbz* ‘diviser, dissiper’ [DRS: 53], Hbr, Aram *bzr* ‘to scatter; répendre, éparpiller’ [KB: 116; DRS: 55].

37. C *mbVz- ‘**fat**’ n.: 5 Pod *məza* (< *mb-z-*); 6 Daba *mbəzā* ‘la graisse’, Mbudum *mbəza*, ‘graisse’ [MbP], Mafa *mbáza* ‘graisse animale’.

//Cf. Eg *ibz'* AR ‘Art feines Salböll’ [EG I: 64], Cush Aungi *buzzi* ‘fat’ [ApAg:160]. Differently see in TN №44 **b[c]*, EDE II: 321.

38. W *buz- ‘**skin**’: 1 Hs *búuziu* ‘an undressed skin mat or loin cloth’. Denom. verb in **a-*: **abuz-* > *b/vVz-* ‘**to skin**’: W 4 Paa *buziu* ‘to skin, flay’ [MS], Jmb *vaz-* ‘to skin’ [SkNB].

39. *bVz- ‘**dirt, faeces**’: W 1 Hs *bízò* ‘rubbish or dung heap or hole’; 6 Ngz *bəžək* ‘rubbish heap’; C 4 Mwl *bwoži* ‘faeces’ [Kr].

⁵⁶ Accord. to [TN №34], Hs follows AA **bʒ* ‘to open’.

//Cf. Sem Arab magh.dial. *bza* ‘excréments’ (Sem **bzy*) [DRS: 54f].

40. C **bVz-* < *Hbz-* ‘to be ill, weak’: 5 Pod *baza* ‘personne sans force’; 7 Muy *bézāebézāe* ‘illness’.

//Sem Geez ‘*anbaza* ‘be fainthearted, weak minded, faint’ [LsG: 64].

41. E 5a WDng *bidyé* (< Ch **bit'*-) ‘allumer le feu’, *bidyirè* ‘souffler sur la feu’; C 7a Skn *bal-yak* ‘hot, red or white hot’.

//Sem Arab *byd* ‘sécher; être intense (de dit de la chaleur)’ [BK I: 183]. For Arab ‘sécher’ cf. W 5 Guus *bàlà* ‘thirst’ [CrG].

42. E 5a *bády-* < Ch **bač/t'*- : EDng *bádyē*, WDng *báadýē* ‘copuler (hommes et femmes, pas les animaux)’.

//Sem Arab *bwz* ‘injecter le sperme dans l’utérus’ [BK I: 179] > Berb Ahg *beżbez* ‘copulation’ Mzab *bbez* ‘piquer, tromper, plonger dans un liquide; coïter’ [NZ:154]

43. **bVž-* ‘white, colored’: W 3 Krkr *boolàa* ‘white horse’; C 6 Daba *bəž* ‘être blanc, briller’; 7 Ould *mbaža-mbažakʷ* ‘tacheté’.

//Sem Arab *wbš* ‘être marqué de taches blanches (ongles, peau)’ [BK II: 1476].

44. C [bVž-*] ‘shoulder’:** 3 Bana *bálzí* ‘épaule’, FK *bàbabàžà* ‘shoulder’; 7 Mbuko *bálžā* ‘partie supérieure du bras’. See [GrR].
But cf. №214. **m-/b-bal-* ‘shoulder’

45. C **bVl-* ‘weak(ness), sickness’: 7 Mbuko *bele*, Mofu *bəlé* ‘faiblesse’, Merey *bèle* ‘faible, faiblesse’, 8 Makari *bululu* ‘sickness sp.’, Kus *bal-kan* ‘(be) weak’ [Al]. Possibly, a loan from Arab *b'l* ‘être faible, chétif, faible’ [BK I: 80].

46. ECh 4 Barein **bölló* ; 5b Kaj *bállè* ‘to vomit’, 2 Nch -*bəlu* ‘vomir’ [HmK]. May be cognate with the previous root.

47. **bi/ul-* ‘back (of the body)’: W 3 Krkr *mbilàa* [GK], Ngm *mbulà* ‘buttocks’; C FK *mbúl* ‘back’; 8 Afd *billum* ‘Rüken’ [Sol:121]. Denom verb: C 8 Kus *bilim* ‘to be last, back, behind’, Makari *bilim* ‘behind, back’ [Al].

48. **m/H-bVl-* ‘to be able’: W 3 Kupto *mbòléy* ‘to be able to do smth, manage’; E 2 Lele *bàl* ‘égaler, suffir, être capable de’.
//Cf. Sem Geez ‘*abbala* ‘make, do’ [LsG: 34].

49. **m/H-bVl-* ‘to like, love’: C 6 Mina *mbál* ‘to like’, Daba *mbàl*

‘aimer, vouloir’; E 1 Kera *bèlè* ‘want, love’. Cf E 6 Mok *búlmè* ‘avidité’, 1 Kera *ávèlày* ‘jalousie’; C 5a Hdi *mbuli* ‘égoiste’.

50. C 2 Bura *mbàl* ‘beer’; 8 Makari *mbol* ‘millet beer’
//Sem Akk *billu* 1. ‘alloy, melt’; 2. (a t of beer) MA, Nuzi [CAD b: 228], Ug *bl* ‘blended beer’ [DUL: 219].

51. C 10 Gizey, Masa *bìnén*, Ham, Musey *bénén*, Lew *?àbènén*, Marba *mábìnèn* ‘fish Gnatonemus sp.’ [LexC], Azum *bauna* ‘a sp. of edible fish, big and strong’.

//Cf. Sem Arab *bunniy-* ‘carpe’ [BK I: 166].

b. *[*H-f-n /*H-b-n]* ‘fish’: W 6 Duw *vànyiyà*, Bade, Ngz *vànàkau*.

//Eg *ȝbnn* ‘Art Fisch’ Sp [EG I: 8].

52. *bVr- ‘to go around’: W 3 Ngm *bùurô* ‘to go around’ [NEH]; C 2 Bura *bari* ‘detour, to go around’ [BIB].

Deriv.in *-t-:* W 6 WBade *bàrtànu* ‘turn over, roll over’, *bàrbàr-tu* ‘roll around on ground (donkey..)’, 3 Krkr *bìrku* ‘go around, surround’ [GK].

53. *bVr- ‘to leave’: W 1 Hs *bári* ‘to leave off’; C 7 Muy *ámbràŋ* ‘leave, stop, let abandon’, Cf. C 10 Dzpw *víri* (< *?abiri*) ‘abandonné’, C 4 Miya *bàrəm* ‘remainder’ [Sch]

//Cf. Sem Ug *b'r* ‘abandon, forsake; to leave’, Hbr *b'r* ‘devastate, sweep away, remove’ [DUL: 209], Aram jp *ba'eer* ‘éloigner’ [DRS: 75] For cognates of Eg *by³* Pyr ‘sich entfernen’ see [EDE II: 126].

54. *n-bVr- ‘to chase, drive away’: W 2 Ngas *várð-ŋ* ‘to chase away’ [JgN]; C 7 Mol *varay* ‘chase away’ [FrM]. Note *v-* < *nv-* < *nb-*
//Sem Arab *nbr* ‘chasser qqn, l'éloigner à force de cris’ [BK II: 1183], ECush Som *buritey* ‘to chase (away)’ [LIS].

55. W 3 *bur- ‘to build’: Glm *bér-àalá*, Krf *bur-* ‘to build’ [SchB]; C 7 Mada *mebeber* ‘mur de pierres qui soutient les terrasses’;
//Sem Sab *br²* ‘build, construct’ [SD: 30] < Sem **br²* ‘create (God)’: Hbr *bārā*, Aram *b'erā*, Arab *bara'a*, etc. [DRS: 80].
[HSED №342].

56. *bar- ‘jackal, wild dog’: W 3 Ngm *bàbàarà* ‘wild hunting dog’ [NEH]; E 5a Brg *bàrá*, Tor *bara* ‘chacal’.

//Sem Akk *barbaru* from OAkk on ‘wolf’ [CAD: 108, AA 140]

Chadic *f-

57. *fVd- ‘to die (of fire)’: C 9 Mnj *fidi* ‘éteindre’; E 1 Ndam *pàdà* ‘cacher, éteindre (feu)’.

//Cf. Sem Arab *fyd* ‘mourir, périr’ [BK II: 652]

58. W 2 *fuut < *fut/d#: Ngas *fut* ‘stocks for the feet’ [Fl], Mghv *nfut* ‘metal lock, stocks (used in detention centers to keep inmates from escaping)’ [BLM], Goemay *fuut* ‘log of wood to which prisoner was attached’, *lu fuut* ‘prison’ (*lu* ‘hut’).

//Sem Akk *pádu* ‘to fetter, put in fetters, imprison’ OB, MB, SB [CAD p: 8], ‘einschliessen, gefangen setzen’ [AHw: 808].

59. W *fayat- ‘to fight, wrestle’: 2 Mghv *fyaat* ‘to throw someone to the ground in wrestling’ [BLM]; 4 Wrj *fatai* ‘fighting’ [BLS].

//Sem Tgr *fetäta* ‘to knock down’ (Geez *fyt* ‘to plunder’) [LsG: 173].

60. W *fa[ħ]- ‘to pour’: W 2. Ngas *foo*, *fhoō* ‘to pour away, throw away’ [Fl]; 4 Cagu *vo*, *va*, Mburku *vay* (regress. velarization by assim.), *vow-* ‘to pour’ [SkNB]; Cf. W 5 Grnt *vʷàa* ‘to pour’ [Hr].

Cf. TN №452 (includes a few Ch forms, following *pVy/wʔ- ‘to pour’, see №394 of the present volume).

61. C 10 Gizey, Masa, Ham *fék* ‘chasser avec le chien’ [LexC].
//Sem Arab *fqw* ‘suivre les traces de qqn’ [BK II: 623].

62. *fVl- ‘to be, become big’: W 2 Grk *fwel* ‘to grow; tall’ [Fp]; C 2 MC *flyi* ‘être large’; 6 Buwal *fäl* ‘to enlarge’, Daba *fəfäl* ‘ajouter; accroître’.

63. *fVn- ‘flower’: C ‘flower’ 4 Bch *fin-to*; 6 Daba *fòfón* [JgIb], Buwal *fàfàn*, Gavar *fafan*; 7 Cuv *méfnéy*; E 6 Mok *póopóonyà* ‘fleur, fraîche’.

64. *fun- ‘mush’: W 2 Goem *fwən* (-a- pl.) ‘mealy, floury substance (usually of cassava)’ [Hlw]; C 10 Musey *funa* ‘la boule, food made of flour’ [ShyM], Dari *fün*, Dzpw *fün* ‘boule(tte)’, Azum *afuna* ‘mush’.

65. *fir- ‘to cut (a small piece)’: C 10 Dzpw *fir* ‘tailler en pointe’.
Deriv in -s-: W 2 Mghv *fi/uriš* ‘to slice’ [BLM]; 7 Mofu *-fəfərs-* ‘mettre en miettes, couper en petites bouchées’.
//Sem Arab *frfr* ‘couper, briser, déchirer’ [BK II: 582].

66. W *fVr- ‘to weed’: W 1 Hs *firè* ‘complete the 1st weeding of a

corn crop'; 2 Mpn *für* 'to weed', Goem *fär* 'to weed field, clear land' [Hlw]. Cf. C 8 Bud *färtá* 'déplumer' [Awg].

67. *(n-/H-)fVr- ‘antelope’: W 2 Ngas *fiir* [Fl], Ngas *nfiir*, *mfiir* 'roan antelope' [JgN]; C 7 Mbuko *fuwar* 'antelope'. Cf. 10 Dari *vārē* 'animal sauvage, viande de gibier', Dzpw *vīrēj* 'animal sauvage'. Note W 2 Ngas *fiir* 'musical instrument made of the horn of *fiir* antelope'.

//Sem Arab *ya'fur-* 'gazelle' en gen. [BK II: 298].

Chadic *p-

68. C 7 Baka *pay* ‘ouvrir’ [BAS], Mol *pay* ‘open’ [FsM].
//SCush rift **poo*²- ‘be open’: Irw *puu?*, Alg, Bur *poo?*; **poo*²*a* ‘opening, hole, space between’.

For a metathesis see CLD V №16 *²*a/wVp-* ‘to widen, to open (mouth)’.

69. *pVh- ‘to rot’: C 8 Afd *pheóh*, Gulfei *fiā*, *fiya* ‘rot’ [Sol: 205], Makari *pu* ‘to spoil (food), (intr.) pourrir’ [AlM].

Cf. W 1 Hs *fiyaayà* ‘mildew’.

//Berb Shilh *fi* ‘suppurer, être crevé (abcès)’, Qab *fi* ‘suppurer’ [NZ: 680].

70. *pVYVs- ‘upper leg’: W 2 Mnt *pəyəs* ‘Wade’ [JgC], Gmy *pāas* ‘calf of leg’ (apud [TAS: 302]); C 3 Bana *pxəšì* ‘hanche’.

71. Cf. E 5a Mig *pádáw* ‘perdre les cheveux’.

Derived noun: C 5 Pod *ma-fəda* n. ‘chauve’; 7 Mafa *fuwda-k* ‘calvitie temporale’.

72. E 1 Ngam *pedí* ‘natter, tresser (les cheveux)’, Mobu *pode* ‘tresser (cheveux)’

//Sem Arab *hfd* ‘filer’ [BK I: 456].

73. *pVt- ‘to refuse, reject’: C 3 Mofu -*pət-* ‘to refuse to do smth to smbd’; E 4 Sok *piti*, *phítee* ‘verweigern, zurückstossen, refuse, deny, reject’ [Luk]. Cf. W 3 Pero *póttó* ‘to betray’.

74. *pVt- ‘to respect’: W 1 Hs *fāataa* ‘to wish well to person’; 3 Kupto *fūktéy* ‘to greet’ (pl. in -*k-*); C 10 Dzpw *pít* ‘respecter’.

//Sem Arab *fīh* ‘faire une faveur à qqn, lui accorder qqch’ [BK II: 532].

75. **pVt*- ‘to wrap’: C 6 Buwal *pat* ‘to wrap up’; E 6 Mok *piütte* ‘envelopper’.

Derived noun: C 5a Hdi *pøta* ‘mat’; 9 Mnj *potok* ‘natte en bandes cousues’.

76. **pVt*- ‘cattle’ > ‘bull, cow’: W 2 Mghv *mpaat* ‘castrated cow’ [BLM]; 10 Gizey *pùtat* ‘vache, cow’ [LexC], Masa *pùt* ‘bovin’, *pùtnà*, *pùttà* ‘taureau, vache’ [CC]

77. **pVHvt-/pVt-* ‘k of plaited net, cage’ : W 2 Goem *p’it* ‘a type of net used by women in fishing’ [HLw]; E 5a WDng *póótá*, *pótá* ‘piège à oiseaux construit avec un fil de poils de queue de cheval’, 6 Mok *póotó* ‘piège pour oiseaux (construit à terre)’.

78. W 2 **pVk-* ‘to rub’: Ngas *puk* ‘to rub smth’ [JgN], Goem *pòk* ‘to rub smth’ [JgN], *paòk* ‘to rub smth’ [JgN]

'to rub smth (oil on body, feet on ground)' [Hlw].
//SCush rift **pikis*, Caus. 'rub husks from grains': Irq, Gor *pikis* [Kies]

79. *PVg- ‘to fan’: W 3 Tng *puge* (sg.) ‘to fan, wave’ (cf. Tng *puke* pl. ‘to winnow (in calabash)’); E 2 Lele *pēg-dē* ‘éventail’.

//Sem Arab *nfg* ‘commencer à souffler (se dit du vent)’ [BK II 1304],
 Cush Hamir *figya* ‘wind’ [ApAg], dullay Dob *fug-* ‘blasen’ [AMS].

80. C **pak-* ‘leopard, panthere’: 1 Boka *pēk-tə* leopard’ [Kr]; FK *p(á)ká* ‘leopard’, Higi Moda *puke* [Meek]; 5a Hdi *paka²w* ‘panther’, *paka²w yuvi* ‘hyena’.

81. C 7 **pVs-* < **pVs/c-* ‘to cut in small pieces’: Muy *épéš* ‘to cut up into small pieces’, Ould *-pāsāy* ‘cut in small pieces; remettre’, *pespès* ‘small pieces’
//Cf Sem. Aram Nab *ns* (< **pc*) ‘part, portion’ [HJ: 921]

82. C -5a **pVȝ-* ‘to fly’: Cinn *pəȝ'ā*, Gdf *pəȝā* [Kim], Gava *p'ȝā*, Gly *pīȝ-ga* [GyH].

For a derived noun cf.: W 2 Ngas *pul pul* [Fl], Mpn *npílpùul*, Mghv *mpúlpùl* ‘butterfly’ [BLM]; C 2 Bura *pṭa* (<*pṭa*, regressive devoicing in contact) ‘flying insect’..

83. **pVl-* ‘to be ill’: W 2 Ngas *pal* ‘to feel pain’ [Fl]; C 10 Azum *pupuluka* ‘agony’; E 5a EDng *pàllisē* ‘be very tired’. Cf. C 2 Bura *pili*

‘to infect’ [BlB].

Derived noun: W 6 GBade *pəlaatâ* ‘spirit which causes physical affliction’.

//Sem Arab *fyl* ‘être faible, affaiblir’ [BK II: 65], Akk *pilû* SB ‘a disease’ [CAD p: 380].

84. *pVl- ‘to brush, shake’: W 1 Hs *fillà* ‘to get rid of dust (brush)’; C 6 Daba *pèlēn* ‘secouer’

//Sem Akk *napālu* from OAkk ‘kick up dust, turn upside down’ [CAD n₁: 272].

Cf. W 2 Goem *puul, pul* ‘dusty, dirty’ [Hlw].

85. *pal- ‘hangar, granary’: C 7 Mol *palpala* ‘straw hut’ [Bow]; 9 Mbara *pólòyó* ‘granary’; E 2 Lele *pàl* ‘hangar’.

//Berb Wlm, Ayr *tafala* ‘hangar; tente, maison provisoire’, Awj *tifili* ‘maison’ [NZ: 563].

86. *p[a]n- ‘to raise’: C 6 Daba *pān* ‘soulever’; E 1 Kera *pójé* ‘heben, soulever’. Deriv. 10 Musey *poy-ga* ‘lever, soulever’ [ShyM].

87. W *pan- ‘to carry, hold’: 2 Mpn *pán* (pl.) ‘to carry; hold’, Kfy *pan* ‘to carry along’ (apud [TAS: 280]); 3 Bele *fán-kò* ‘to carry, take up’ [SchB]; 5 Zul *pəni* [Cs №782], Mangas *pan* [Cs] ‘to carry’. Cf. 5 Grnt *pani* ‘to take’ [Hr].

Derived noun: 3 Dera *pínén* ‘load’ [NmK].

88. C *pun- ‘to rot, smell’: 3 FK *púná* ‘to ferment, decompose’; 9 Mnj *ko-poj* ‘cadavre’; 10 Azum *pun-da* ‘to make a smell (body, faeces)’.

//Sem Arab *fn* ‘gâter (la viande)’ [BK II:302], Berb Ghad *taffant* ‘puanteur’ [NZ: 578].

Note W 7 Bok, DB, Sha *fun* ‘Leiche, corpse’ as a loan < Arab *ufun* ‘putréfaction’ [BK II: 302].

89. W 2 *pay ‘viper’: Goem *páy* ‘puff-adder’ [Hlw], Mpn *pāy* ‘viper’, Mghv *pay* ‘poisonous snake’ [BlM].

//Sem Arab *?afnūn-* ‘serpent’ [BK II: 636], cf. Eg *‘pnn* Med ‘Art Wurm, oder Schlange’ [EG I: 180].

90. *pVr- ‘to snatch’: C 8 Zina *prà* ‘to grab, hold’.

Derived verbs: 6 Buwal *p'ràt* ‘to snatch’; 10 Azum *pru-ta* ‘to snatch out (of enemies hand or mouth), to wrest from another’.

Derived noun: W 5a WDng *pèerè* ‘petite pince en fer’.

91. W 2 Goem *par*, Mnt *pai* ‘to send, messenger’ [Fp] .
//Cush Afar *far*, Saho *fare* ‘to send’, *farto* ‘message’ [Vr], Afar, Saho
faar ‘senden, schicken’ [RAf], ECush Som *faray* ‘send a message,
setting out for a journey’ [LIS], Ong *farat-* ‘to send away’ [SaT].

92. W 4 **par-* ‘antelope horn’: Paa *púrkiti* ‘horn’ (*kiči*, pl
kiitčyaani ‘Grimm’s duiker’) [MS], Wrj *par-ai*, Miya *apar*, Kariya *par*
‘horn’ [SkNB]. Cf. E 6 Mok *pârrè* ‘longue trompette’.
Cf. C 6 **fara-m* ‘(cow?) horn’ Daba *fálām*, Buwal *fárám*, Mina
fôrám, Mbedam *faram*.

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- AKM - *Abhandlungen für die Kunde des Morgenlandes*.
- AM - *Africana Marburgensia*.
- AuÜ- *Afrika und Übersee*.
- JAL – *Journal of the African Languages*
- MSAA - *Marburger Studien zur Afrika- und Asienkunde. Serie A*. Berlin, Reimer.
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- SELAF - *Societe d'Etudes Linguistiques et Anthropologiques de France*.
- SIL - *Summer Institute of Linguistics*
- SOA - *Sprache und Oralität in Afrika*.
- TCL - *Topics in Chadic Linguistics*.

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Azumenia - PAz	EDangla – Dj	Ma(aka - SvM	Muyang - SmM
GBade - Tarb	FK - BlFK	Makari - AlM	Ngizim - SchN
WBade - DgB	Gavar - VGv	Malgwa - Lr	Ouldem - KOu
Bana - GlBn	Gisiga - LkG	Masmaje - Alio	Pero - FrP
Bidiya - JgB	Glavda - Rp	Mawa - RoM	Podoko - JL
Bure - BtB	Gude - Hsk	Mbara - TrMba	Saba - DMT
Buwal - VBw	Hausa - Bargery	Mbuko - GvNT	Sakun - DS
Chuvok - NdC	Hdi - BrH	Merey - GvMr	Tangale - JgT
Dari - Cpr	Hitk - LkH	Migama - JgM	Toram - Alio
Dugwor - BryD	Kajakse - Alio	Mobu - Lns	Tumak - CpT
Duwai - SchD	Kera - Eb	Mofu - BaMof	Vame - Kin
Dzəpaw- Sa	Lele - WP	Mokillo - JgMk	WDangla - Fd
Dyarim - BlD	Mada - BaMd	Mulwi - TrMlw	Zulgo - ZIL
	Mafa - BaMaf	Munjuk – TrMnj	

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