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On the Problem of the Proto-Mande Homeland[1]

When dealing with the internal classification of the Mande language family (Niger-Congo phylum), short-range groups can be singled out easily; the main problem concerns mid-range stages of the internal classification. The present article suggests a new version of such a classification. For the first time, it is based on the standard Swadesh 100-word list. Lexicostatistical data are then confronted with the evidence of paleoclimatology and archaeology. I conclude that speakers of Proto-Mande most probably lived around the second half of the 4th millennium BC in Southern Sahara, somewhere between 3° and 12° Western longitude, to the North of the 16° or even 18° latitude. This hypothesis is supported through analysis of the cultural vocabulary that can presumably be reconstructed for the Proto-Mande language.

The Mande family[2] belongs to the hypothetical Niger-Congo phylum whose genetic depth, according to tentative estimations, lies in the range of 12 to 14 millennia. The inner classification of Mande has a long history, expounded in [Kastenholz 1997]. As is often the case with language classifications, there is a relative consensus here concerning short-range grouping. At this level, the following groups can be established:

1. **Southern Mande** (Dan, Guro, Yaure, Tura, Mano, Mwan, Wan, Beng, Gban, Gbin).
2. **Eastern Mande** (San, Sane, Bisa, Boko, Bokobaru, Busa, Kyenga, Shanga).
3. **Samogo** (Jo, Seenku, Banka, Duun, Dzuun, Kpan, Kpeen).
4. **Bobo**.
5. **Soninke-Bozo**.
6. **South-Western Mande** (Mende, Loko, Bandi, Looma, Kpelle).
7. **Soso-Jalonke**.
8. **Jogo** (Jogo, Jeri, Numu, Ble).
9. **Vai-Kono**.
10. **Mokole** (Mogofin, Kakabe, Koranko, Lele).
11. **Manding** (Bamana, Maninka, numerous varieties of Jula, Mandinka, Xasonka, Marka-Dafin, Mau, &c.).

However, when it comes to combining smaller groups into middle-range ones, the story is long and controversial. I am not going to delve into the comparison of all the preceding variants of the inner classification of Mande, as this job has already been done by Kastenholz; only two most recent classifications, one by Claire Grégoire and Bernard de Halleux [1994] and the other by Raimund Kastenholz [1997], will be considered here.

The former represents the most recent and, until now, the most successful application of Morris Swadesh's glottochronology. Claire Grégoire and Bernard de Halleux modified the wordlist, reducing it to 92 items by eliminating "bad" words ("bark", "swim", "feather", "round", "to fly") and replacing them with more suitable equivalents. At the same time, the majority of the 43 languages handled in their study were represented by even shorter lists, due to poverty of the available sources. The results of the calculation are represented in the form of a chart with the percentage of cognates for each pair of languages and a genealogical tree.

Such reticence might be a reaction to the too straightforward evaluations of the time distances during the "romantic period" of glottochronology and the subsequent scathing criticism of the method, which compelled many linguists to regard statistical data as relevant exclusively for relative, not for absolute dating of language divisions.

Unfortunately, the wordlist used in [Grégoire & de Halleux 1994] for their lexicostatistics has not been published, which makes it impossible for other scholars to verify or update their results.

Claire Grégoire & Bernard de Halleux's classification of Mande languages (for abbreviations see *Appendix 1*; the scale of this chart reflects the percent of cognates in the comparative list, and not time depth):

[1] The current study is a part of the project *"Integral description of the Southern Mande languages: Dictionaries, grammars, glossed corpora of texts"* supported by a grant of the Russian Foundation for Human Studies (№ 08-04-00144a).

[2] A detailed language map of the Mande family can be found at http://www.sil.org/SILESR/2000/2000-003/silesr2000-003.htm.

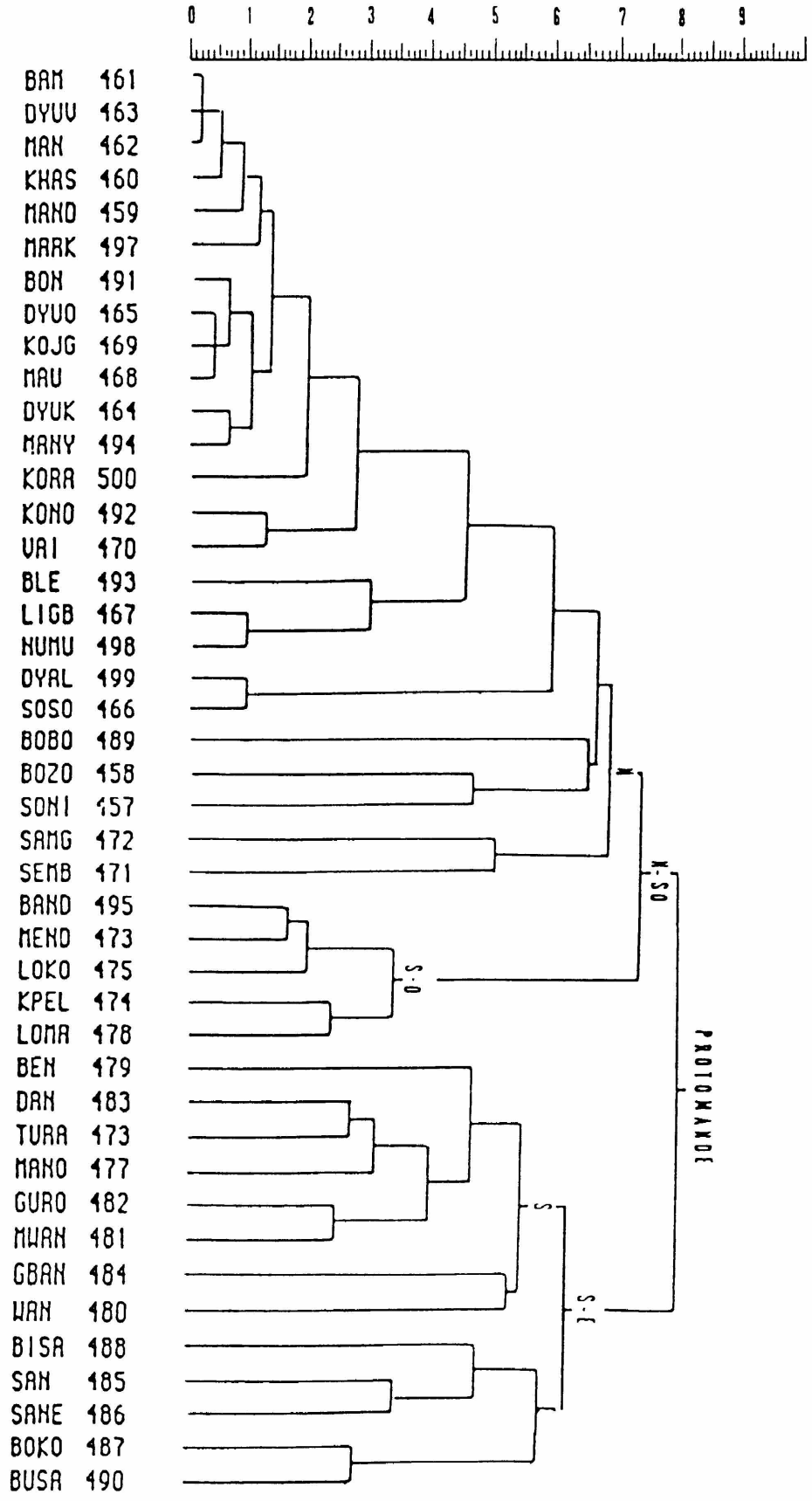


Tableau 1.- Classification des langues

Claire GRÉGOIRE & Bernard DE HALLEUX's lexicostatistical data (see the next page):

			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
0	BAM	461	0																																											
1	BAND	495	42	0																																										
2	BEN	479	34	25	0																																									
3	BISA	488	27	21	48	0																																								
4	BLE	493	58	38	30	32	0																																							
5	BOBO	489	40	28	33	38	36	0																																						
6	BOKO	487	30	21	48	47	26	28	0																																					
7	BON	491	92	41	36	29	63	42	28	0																																				
8	BOZO	458	45	33	29	26	38	37	23	43	0																																			
9.	BUSA	490	30	20	39	44	25	23	72	27	17	0																																		
10.	DAN	483	43	30	51	46	32	37	51	40	25	46	0																																	
11.	DYAL	499	48	32	30	21	40	32	20	46	32	20	32	0																															
12.	DYUK	464	95	42	34	27	65	40	28	92	46	27	42	48	0																														
13.	DYUO	465	97	42	36	26	62	40	32	93	45	31	46	47	95	0																													
14.	DYUV	463	98	41	34	28	61	41	30	89	41	28	42	47	95	92	0																												
15.	GBAN	484	35	28	43	36	33	33	38	37	24	40	51	26	35	37	37	0																											
16.	GURO	482	31	28	55	45	33	37	48	37	25	47	69	26	35	35	33	51	0																										
17	KHAS	460	97	42	34	27	60	41	30	90	46	29	41	44	93	88	96	36	32	0																									
18.	KOIG	469	96	42	36	27	61	40	32	93	43	31	43	46	95	96	93	37	35	90	0																								
19.	KONO	492	77	37	29	26	60	41	26	77	41	24	39	49	78	75	77	34	34	77	73	0																							
20	KORA	500	85	37	27	24	57	40	25	82	43	25	39	43	85	83	83	32	32	81	82	82	0																						
21.	KPEL	474	43	70	25	22	42	33	20	45	37	21	27	39	43	43	43	32	26	42	43	43	41	0																					
22.	LIGB	467	53	36	26	35	71	36	22	54	38	22	34	37	57	57	52	36	35	50	53	59	55	42	0																			
23	LOKO	475	37	82	20	17	31	28	16	36	27	16	29	29	36	37	36	26	25	36	35	34	32	64	29	0																	
24	LOMA	476	42	73	22	20	37	32	22	40	33	20	26	31	41	39	43	28	26	42	40	36	35	76	35	68	0																
25.	MALK	496	•••	41	36	25	61	40	32	94	44	29	42	48	98	94	97	35	30	96	91	76	85	42	54	35	39	0															
26	MAN	462	98	43	34	26	60	39	31	90	45	29	44	47	95	95	98	36	34	95	91	77	87	42	52	38	41	•••	0														
27.	MAND	459	91	42	34	27	60	42	30	88	45	28	44	45	92	87	93	38	38	93	87	79	84	41	51	35	40	94	92	0													
28.	MANO	477	44	31	55	45	33	31	50	42	28	44	69	30	42	44	42	50	58	42	42	35	37	32	37	29	32	41	42	39	0												
29	MANY	494	90	42	34	31	57	46	33	89	42	33	44	40	93	92	90	40	38	90	93	72	80	45	53	39	45	91	89	90	40	0											
30	MARK	497	91	41	37	29	60	42	32	91	38	28	43	43	87	88	94	36	37	90	87	73	80	43	51	40	45	90	87	87	40	87	0										
31	MAU	468	97	42	34	26	60	41	31	94	45	30	45	47	93	96	94	38	36	91	96	74	86	43	56	35	41	95	94	91	42	90	88	0									
32	MEND	473	43	83	24	19	37	29	18	40	30	21	32	35	42	42	41	28	28	41	41	37	36	66	34	80	71	42	44	41	28	45	45	41	0								
33	MWAN	481	34	28	55	43	28	26	48	35	23	43	65	25	34	34	33	47	75	33	34	30	31	23	32	22	26	30	33	33	59	33	36	34	28	0							
34.	NUMU	498	54	38	25	32	70	31	21	48	39	21	33	39	56	52	54	29	30	54	51	61	53	40	90	29	31	55	54	53	37	43	48	53	34	28	0						
35.	SAMO	472	39	27	30	23	36	36	19	40	33	18	34	36	39	39	41	33	28	39	36	39	39	30	32	25	26	39	39	39	28	41	34	38	26	26	32	0					
36.	SAN	485	28	28	44	55	27	32	44	28	23	43	50	21	26	28	27	38	48	28	29	28	25	22	30	20	20	28	28	28	44	31	31	26	24	43	26	20	0				
37	SANE	486	28	25	45	51	26	25	39	29	23	39	47	21	26	29	27	36	45	28	29	29	25	22	30	18	18	29	28	29	45	31	29	26	22	42	28	19	66	0			
38	SEMB	471	36	24	31	25	30	32	19	32	26	19	32	28	34	33	35	30	30	34	31	35	35	28	29	20	28	34	34	33	29	34	33	33	24	27	29	49	23	21	0		
39	SONI	457	42	29	29	33	40	33	30	44	53	28	33	29	42	42	41	27	29	42	43	39	41	35	37	25	28	41	42	44	30	44	38	41	25	28	39	35	31	29	29	0	
40	SOSO	466	51	37	29	21	40	33	21	46	36	21	32	90	50	48	49	27	28	45	47	50	46	40	37	34	35	49	48	46	31	41	42	48	39	28	39	39	21	21	29	31	0
41.	TURA	478	40	27	53	45	33	34	48	40	26	45	73	28	39	43	40	51	64	38	40	37	36	30	35	23	29	39	40	38	70	41	39	43	25	62	35	27	44	44	30	28	31
42	VAI	470	72	40	28	24	54	36	24	69	38	25	36	43	70	69	68	30	30	70	70	87	71	41	52	32	38	69	71	70	32	69	68	67	41	30	53	34	26	26	31	34	43
43	WAN	480	32	21	45	35	24	27	43	32	25	39	53	24	30	32	29	47	54	28	33	29	30	23	31	16	20	28	31	31	45	32	30	31	21	58	25	24	32	33	23	27	27

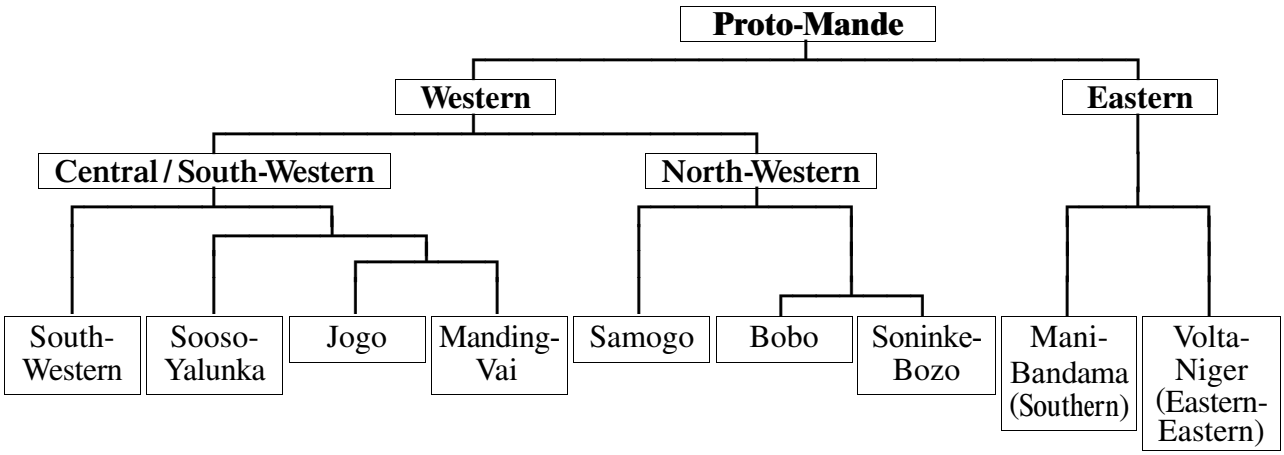
Tableau 2. - Pourcentages d'apparentement

The work by Raimund Kastenholz [1997] represents the next stage of the "anti-glottochronological reaction" in Mande comparative linguistics: he rejects glottochronology altogether, relying exclusively upon the method of shared lexical innovations. In his classification, Kastenholz leaves aside the "Eastern" group (his only innovation in this sphere is a label change: "Eastern" for what was previously "South-Eastern", "Mani-Bandama" for "Southern Mande" and "Volta-Niger" for the ex-"Eastern Mande") and restricts his scope to Western Mande. The classification of the latter generally follows those of the earlier authors, but differs in a few minor points. His major innovations consist in grouping together:

1) Samogo, Bobo and Soninke + Bozo languages into a "North-Western group", and

2) South-Western Mande and "Central Mande", the latter including Soso, Jogo and "Great Manding" (Manding + Vai-Kono + Mokole groups).

Chart 1. Mande classification according to R. Kastenholz



It is Raimund Kastenholz's classification that has been accepted by the compilers of one of the most popular sources on language classification, the *Ethnologue*, which makes it something of a current "standard"; its major outlines were also reproduced in my own *Manding Dictionary* and in some other publications.

However, Kastenholz recognizes that "…the described above method of segmentation, finally, is not based on an objective criterion. Therefore, a classification that follows cannot be considered as genetic in the narrow sense". Being highly skeptical about lexicostatistics, Kastenholz believes that verification should be performed by comparing the results of the method of shared lexical innovations with evidence provided by historical sound change [Kastenholz 1997: 41]. In fact, Kastenholz recognizes the shortcomings of his method: a lack of quantification combined with difficulties in distinguishing between true innovations and retention, which make it unverifiable. In my opinion, despite all the imperfections of lexicostatistics, it is still preferable to the method of shared lexical innovations.

Today, after Sergei Starostin's improvement of glottochronology[3] has addressed numerous problems of the method, it is time to apply it again to the data of Mande languages. It should be mentioned that Mande languages are much better documented now than they were fifteen years ago, when Grégoire & de Halleux's paper was written; this is particularly relevant in relation to Southern Mande, Eastern Mande, Samogo and Mokole languages. Apart from this, certain progress has been made in the phonological and lexical reconstruction of some branches of Mande, especially South-Western and Southern, which is a very important prerequisite for the precision of glottochronological calculations. In my study, I use the data of 54 languages and dialects (for a complete list with sources, see *Appendix I*).

Before discussing the results of my calculation, some preliminary remarks are in order:

1) My calculation, unlike Grégoire & de Halleux, is based on the standard 100-wordlist of Swadesh. It is true that a "correction" of the wordlist by eliminating "bad" words may produce an impression of improvement when dealing with the data of one single language family, but it restricts the potential use of the wordlist in higher level comparative studies. It is well known that every language family has certain "bad words" of its own, and if we clear out all of them, we risk having nothing at all left to compare.

[3] [S. Starostin 1989/2000]; an electronic version of the paper is available at http://www.nostratic.ru/books/(140)Starostin_Glottol.pdf. For further discussion of Starostin's "improved glottochronology", see [Vasilyev & Militarev 2008].

On the other hand, it turns out that even "very bad words", such as "green" and "yellow"[4], are sometimes not as bad as one could imagine. Thus, the word for "yellow", although a compound (most often = "like the powder of the fruits of the locust tree"), is unexpectedly stable in Central Mande languages, in Bozo and Samogo. As for the argument that words for "bark" and "feather" are very often the same as for "skin" and "hair" respectively (for this reason, "bark" and "feather" were excluded from the list of Grégoire & de Halleux), it is somewhat irrelevant, since lexicostatistics (and glottochronology) does not deal merely with roots, but takes into account the meanings of the words as well. So, if in language *A* two notions (for example, "bark" and "skin") are expressed by one single word, while in language *B* these are two different words (one of which may be the same as the word in the language *A*), this fact is quite meaningful and does not hurt the principle of lexicostatistics.

2) I accepted an approach to compounds different from that of Grégoire & de Halleux: they considered each component of the compound word separately, so that a pair of words received half a point when only one component was the same. In my calculation, I award such cognates a full point.

3) When compiling a standard comparative wordlist, one becomes aware of the fact that the degree of proximity of two languages (according to the method of glottochronology) may depend, to some extent, on the degree of elaboration of the sources[5]. A very simple example will suffice: let us imagine that we are comparing two dialects belonging to the Manding branch. In both cases, we have only 100-wordlists collected specially for lexicostatistical purposes, with no extra data available. In the list for the variety *A*, 'small' is rendered as *dɔ́gɔ*, and in the list for the variety *B*, in the same position we have *fítinin*. We have to treat those forms as unrelated, which adds about 200 years to the time depth. However, we know that in better documented Manding variants, both of these stems often coexist, and it is highly probable that when we get more data on the varieties *A* and *B*, we'll have to mark this position with a "+". This rule can be formulated as follows: the better the languages in question are documented, the closer they become[6].

There is a countertendency which comes into the picture at a more advanced stage: a highly elaborated language description may "decrease" the degree of closeness of a certain language to others. Let us imagine that we have small (or even mid-size) dictionaries for Maninka and Bamana. For "egg", we will find Maninka *kḿli*, while in Bamana there are two synonyms, *fán* and *kḿli*. According to the rules of Starostin's lexicostatistics, we should mark this position with a "+". However, if a large-size Bamana dictionary is available, with a well elaborated system of stylistic and other markings, we then find out that *fán* is the main word, while *kḿli* is only rarely used in this meaning, its principal meaning in standard Bamana being 'testicle'. Therefore, we will have to mark "egg" as a "–" for the pair "Maninka — Bamana".

4) Starostin's method implies serious preliminary etymological handling of the languages in question — unfortunately, there is no other way one can increase the reliability of the calculations. In the case of the Mande family, we are now in a situation where only certain branches (South-Western, Southern, Manding) are provided with phonological and lexical reconstructions based on reliable data[7]. But even there, reconstruction has primarily been carried out for the system of initial consonants, to a lesser extent — inlaut consonants, while vowels and tones remain almost unexplored.

As far as lexicostatistics is concerned, the above means that fairly often we have to work with resemblances rather than established cognates. In some cases, making the choice between including forms into a cognate series or splitting them into two (or more) series becomes a true puzzle. A good example can be made by quoting the forms for "bone": are South-Western forms of the **kálɛ́ŋ* series (Mende *kálɛ́*, Looma *kai(g)*, Liberian Kpelle *káo*, &c.) related to the series represented by Soso *xɔ́rì*, Jogo *yélì*, Mokole **kólo*, Manding **xólo,* Soninke *xótti*, Dzuun *xɔ́*, Guro *wɔ́lɛ́* &c.? In the present

[4] Unfortunately, the Swadesh 100-word list had been created long before Berlin and Kay's book *Basic Color Terms, their Universality and Evolution* appeared (1969); otherwise, these two color names would hardly be there.

[5] I am not speaking here of situations when certain words of the wordlist are missing altogether in the used sources; in such cases, we just shorten the comparative wordlist. Theoretically, shortening of the list should not influence the results of lexicostatistical calculation.

[6] For a real example, see the discussion concerning the degree of divergence between Bozo languages/dialects: [Smelzer & Smelzer 1995] and [Blecke & Blecke 1997].

[7] See, for South-Western Mande: [Dwyer 1974]; [Vydrine 1989]; [Kastenholz 1997]; [Vydrin 2006a]; for Southern Mande: [Vydrin 2007]; [Vydrin 2006b]; for Manding: [Creissels 1979]; [Galtier 1980]; [Pozdniakov & Vydrin 1986–1988]; [Kastenholz 1997]; [Creissels 2004]. There is also a dissertation by Konstantin Pozdniakov [1978] attempting a reconstruction of the system of initial consonants for the entire Mande family, but this reconstruction is based mainly on outdated sources.

work I have given them as reflexes of two different roots, but I am by no means sure about it. Otherwise the genetic tree and the percentage chart given below are based on a "maximalist" list, where all doubtful cognates (resemblances) are put on the same footing as reliable cognates.

Another requirement of Starostin's glottochronology is that loanwords should not be counted, but tracked down and eliminated from the wordlist before we proceed to the calculations. In some cases, the borrowed nature of a word is quite evident. For example, Soso *kobole*, *kobele* and Jallonke *kóbólé* 'bark' are undoubtedly borrowed from Mokole languages (or the ancestor language of Mokole and Vai-Kono), where similar forms exist and can be easily etymologized, cf. Lele *kɔ̀-gbolo* (with the referential article: *kɔ̀-gbole*) 'bark', lit. "tree-skin". There are also no doubts concerning the borrowed character of such forms as *wírɛ* 'to fly' or *yáagɛ-nden* 'big' in Kakabe (cf. Pular *wii-ru-gol* 'to fly' and *yaaja* 'be broad'). However, the situation is much less clear when we come to such Kakabe forms as *fɔ́* 'all' and *dúulɛ* 'cloud': on one hand, we have Pular *fow* 'all'[8] and *duule-re* 'cloud' (since all Kakabe speakers are bilingual in Pular as the second language, such borrowings are obviously possible), but, on the other hand, we have Gban *fɔ̌fɔ̌* 'all', Jo *fɔ̰̀* 'all', &c., and for 'cloud' we find such forms as Lele *dúye*, Koranko *dúru* 'dew, fog', &c., which imply a native Mande origin for the Kakabe forms. There are sometimes "hidden" influences which may distort the picture, such as retention of forms close to Maninka in Kakabe[9].

One of Kastenholz's criticisms of glottochronology is that it is rather difficult to evaluate and compare the results achieved by different authors [Kastenholz 1997: 38]. I believe that this flaw can be fixed by sticking as close as possible to a standard and unified methodology (the more we deviate from it, the less comparable our results become), and by publishing the complete wordlists used for calculations, so that everyone can check both the data and the procedure. That is why I provide here not only the genetic tree of the Mande family (see *Insert 1*) and the chart of the percentage of cognates for each pair of languages (see *Insert 2*), both generated by the StarLing software, but also the full 100-word list as well (see *Appendice 1*).

Looking at the resulting genealogical tree, we find some interesting differences from both Kastenholz's and Grégoire & de Halleux's classifications. Contrary to the former one, Bobo does not constitute one group with Soninke and Bozo; Soso and Jalonke constitute one large group with South-Western Mande, not with Manding-Jogo; and Mokole turns out to be closer to Vai-Kono than to Manding. Contrary to the latter classification, South-Western Mande languages do not constitute the very first split of the Western ("Northern/South-Western") branch, since their separation follows that of numerous other groups; the internal arrangement of the Southern group is different, &c.[10]

On the other hand, when we confront the tree and the chart, some discrepancies between them also catch the eye. Below I list only a few of them:

a) Bobo is placed together with the Samogo group. This means that the Bobo — Southern Mande split took place sometime around 3100 BC (i. e., the period during which Proto-Mande split into Eastern and Western branches). However, in the chart, the separation dates of Bobo and individual languages of the Southern group are all in the range between 1900 and 2400 BC (i. e., more or less the same as the divergence between Bobo and South-Western Mande);

b) the same is true for the relations of the Southern group with South-Western Mande and Central Mande (Manding + Mokole + Jogo): here again, the chart gives us about the same range of dates for Southern — South-Western, Southern — Manding, Southern — Mokole, Southern — Jogo divisions (roughly, between 2000 and 2400 BC), while, according to the tree, the split should be dated back to 3100 BC.

[8] Cf. also the form *fow* 'all' attested in the Jalonke dialect of Futa-Jallon described by Friederike Lüpke [2005], most probably a Pular loan; in the Jalonke of Faleya we find *bíríń*, cf. Soso *bírín*.

[9] A "Maninka attraction" most probably explains an above "expectations degree" of Kakabe-Maninka cognate percentage in the 100-word list, while the respective degrees for Kakabe-Mogofin and Kakabe-Lele are lower. According to historical evidence, the Kakabe-Mogofin split must have taken place 250 to 300 years ago, whereas glottochronology gives us 780 years.

[10] A special issue is the considerable discrepancy in the figures resulting from the calculation by Grégoire & de Halleux and by myself. Here are some of them:

Pair of languages	Grégoire & de Halleux	Vydrin
Bamana — Kpelle	43	36
Bamana — Dan	43	35 to 38
Gban — Beng	43	57.

Unfortunately, the wordlist used by those authors has not been published, which makes impossible its verification.

I think that the explanation lies in the simplistic nature of the genealogical tree model, based on the "closest neighbor" method which reflects correctly only one type of language divergence, i. e. a division of a language community followed by an immediate cessation of contacts between its offsprings. It is true that such cases happen from time to time (the migration of the ancestors of Mogofin to the West in the 18th century probably constitutes one example), but much more usual is a situation of gradual divergence, where contacts between descendants continue during a long period. Such contacts further the retention of common vocabulary in one of the languages or in both of them. There are also horizontal contacts among related languages, and, quite often, loans resulting from such contacts cannot be easily identified because of similar phonological and syllabic structures of the languages.

If we take the above factors into account, the increased cognate percentages between Southern Mande and the majority of the Western groups can be explained through the fact that the "Proto-Southern" dialects of the Proto-South-Eastern language might have remained in close contact with the Proto-Western language long after the Western — South-Eastern split of about 3100 BC (some facts show that those contacts could continue even after the Eastern — Southern split at about 1560 BC, see below), while the "Proto-Eastern"dialects severed their direct contacts with the Proto-Western language immediately after the split.

Within this context, an explanation can be found for certain particularly anomalous cases. E. g., Gban, Wan and Beng are not only the most eccentric languages of the Southern group (56 to 67% of cognates with the other languages of the group[11], while other pairs of languages oscillate mainly between 66 and 78%); they often reveal lower percentages of cognates with individual languages of other groups as well (Samogo, Bobo, Great Manding, Eastern and, to a lesser degree, Soso-Jalonke), if compared with the data of other Southern languages. However, their cognate percentages with the languages of the South-Western group and Soninke-Bozo are more or less the same as for the other Southern Mande languages. Within the framework of the "abrupt split" model, this situation remains unaccountable, but it can be rationally interpreted within the model of a "soft drift": presumably, after their separation from Proto-Mande, the Proto-Southern language remained in contact with the proto-languages of Samogo, Bobo, Great Manding and Eastern groups; there were probably less intense contacts with the Soso-Jalonke ancestor language as well. Somewhere beween 700 and 300 BC Gban, Wan and Beng split apart, and this division was rather abrupt[12], resulting in the end of all contacts with the abovementioned ancestor languages, while all the other Southern languages maintained those contacts even after their subsequent divergence from the Proto-Southern Mande language. As for the South-Western and Soninke-Bozo groups, their contacts with Southern Mande might have stopped before Gban, Wan and Beng split apart.

The increase in cognate percentage for the pair Seenku — Bobo (in comparison with other Samogo languages) can undoubtedly be explained through horizontal contacts: these are neighboring language communities. In fact, the relative closeness of Bobo with the entire Samogo group may result from horizontal links rather than genetic proximity (all Samogo languages are spoken in the vicinity of the Bobo-speaking area). The same explanation might be valid for the pair Bozo-Kelinga — Bamana.

A two-dimensional model advanced by Konstantin Pozdniakov for the Nostratic phylum [1993: 270 – 272] would represent the process of divergence in a more appropriate way. However, even if we retain the genetic tree model, horizontal links and "soft drift" should still be taken into account.

Another important objection to my automatically generated genetic tree can be formulated as follows. It turns out that the genetic tree reproduces the eternal problem of classification at the intermediate level: seemingly, the reliability of groups whose age exceeds the threshold of about 50% of cognates (i. e., the time depth of more than 3200 years, according to Starostin's glottochronology) is inferior compared to others.[13] It is true that Starling produces a tree which seems to solve the problem, but a question remains: how seriously should we take decisions taken by the computer program (e. g., splitting apart or lumping together Soninke + Bozo and Bobo + Samogo) if we know that imparting a status of cognates to extra two or three doubtful pairs of words (more or less arbitrary, at

[11] An increased percentage of cognates in the pairs Wan-Guro and Wan-Mwan can be easily explained by horizontal influences: today the majority of Wan are bilingual in Guro and/or in Mwan.

[12] It could be an early southward migration. In today's Côte-d'Ivoire, Gban has a reputation of "the very first ethnic group of the country"; all other people are believed to come there after Gban.

[13] One could assume that the explanation of this fact lies in our lack of a true phonological and lexical reconstruction of the Mande language family: the margins of error at that level are comparable with the time distances between different branchings. However, it seems that in much better explored language families (such as Indo-European) we have the same problem of intermediate grouping, which makes me think that this problem may be of a more general order.

the current stage of our knowledge) or adding another dialect of Dan or Looma to the database may result in a cardinal change of the entire configuration of the intermediate level of the classification?

An alternative solution, at the current stage, would be to put all the major groups numbering less than 50% cognates among them at the same level; in this case, all the instances in which the percentage of cognates is rising will be explained by horizontal contacts. I am not sure we should take such a radical path, but we should keep this option in mind.

* * *

After this survey of the questions related to the internal classification of the Mande family, let us now turn to the problem of the homeland. Several hypotheses were formulated so far by different authors:

1) William Welmers [1971]: the homeland of Mande is in Northern Benin (where the languages Kyenga, Shanga, Bokobaru, Boko and Busa are spoken today). First, the ancestors of Bobo moved to the West, followed by the ancestors of the Nothern + South-Western groups; finally, one by one, different groups of South-Eastern Mande left that area as well.

2) According to Bimson [1976], the location of Proto-Mande was "between the Black-Volta and Upper Niger rivers, in the general vicinity of Bobo-Dioulasso more than 4.000 years ago".

3) David Dalby [1971] cautiously expresses the opinion that the Mande homeland was probably located in present day Sierra Leone and Liberia.

4) Claire Grégoire [1994: 63], even more cautiously, subscribes to Dalby's opinion, in a modified form: for this author, it should rather be the area of Northern Côte-d'Ivoire, Southern Guinea and adjacent regions of Sierra Leone and Liberia.

My opinion is that the answer to this problem lies in our being able to combine linguistic evidence with evidence from other branches of knowledge, such as archaeology and paleoclimatology.

Thus, according to glottochronology, the forking of Proto-Mande began some time during the second half of the 4th millennium BC, and its further splitting into the main groups took place before 1500 BC. What do other sources tell us about this period?

According to Robert Vernet [2004: 37–39], during the wet period between 5000 and 3000 BC Sahara was densely populated by hunters and cattle-breeders; there were also some agricultural areas in the region as well. At the end of the 4th millennium BC, an "arid crisis" took place in southern Sahara, resulting in a considerable shift of the population to the South. Roderick McIntosh [2004: 19] provides more precise dates of "dry incursions" in West Africa: 6400, 5500, 4800 and 4200 years ago.

Archaeological evidence tells us that during the second millennium BC, numerous human groups of Southern Sahara were engaged in hunting, agriculture (millet, sorghum, rice) and cattle breeding; in some areas also in fishing. Ferrous and non-ferrous metallurgy came to existence (most probably, independently of the Mediterranean world) in the area to the North-West of the lake Chad about 1500 BC[14] [Vernet 2004: 38]; [Paris & al. 1992] and gradually spread to the other areas. During the same period (second millennium BC), Sahel was still too wet to have a dense population, but there were already some agriculturalists and cattle-breeders along the rivers.

As for the forested areas to the South of Sahel, they were scarcely populated, their inhabitants did not know cattle breeding, and their Neolithic culture was different from the one in Southern Sahara [Vernet 2004: 39].

After an "arid crisis" of ca. 1000 BC, a drastic shift of population to the South took place. After that date, 18° of the Northern latitude became the northern limit of the settled population in West Sudan. Thus, the dense settlement of the Sahelian valleys dates back to the first millennium BC. Before the 3rd century BC, Southern Sahara was still relatively wet, so that cattle breeding by transhumance remained possible.

Following a harsh drop in precipitation between the 3rd century BC and 5th century *A*D, Southern Sahara was mainly abandoned by the Negroid population (except for some oases) to Berbers. The desert reaches the 18° latitude, and to the South of that line, we see flourishing ferrous metallurgy; in Southern Mauritania, copper is also produced.

[14] That is, more or less simultaneously with the Hittites. Until recently, the beginning of ferrous metallurgy in Africa was reported to the middle of the first millennium BC. Archaeological discoveries in Sahel and Southern Sahara pushed its dating by 1000 back.

Between the 6th and 11th centuries *A*D, an increase in rainfall allowed the Sahelian population to go back to 20° or even 21°, establishing contacts with Berbers and Arabs [Vernet 2004: 39]. It is the time of Ancient Ghana and Tekrur; further on in time, we are in the epoch of the written (or rather "semi-written") history of that region.

Let us try to put the climatological, archaeological, and linguistic evidence together in a chart.

Time	Climate	Archaeology	Linguistics
5000 to 3000 BC	Wet period; an arid episode about 3500 BC	Sahara is densely populated: hunting, cattle-breeding, some agricuture. Sahel is scarcely populated	3500–3000 BC: division of Proto-Mande into Western and South-Eastern, contacts continue.
3000 to 2000 BC	"Arid crisis" about 2800 and especially 2200 BC; otherwise, the rainfall is high.	Sahara is densely populated: hunting, cattle-breeding, agriculture. Sahel is scarcely populated (agriculture along river valleys).	About 2100 and afterwards: Division of Western Mande into Proto-Soninke-Bozo, Proto-Bobo, Proto-Samogo and Proto-Central.
2000 to 1000 BC	Rainfall is at the same level as before.	Sahara is densely populated: hunting, cattle-breeding, agriculture. Beginning of metallurgy ca. 1500 BC to the NW of the lake Chad. Sahel is scarcely populated (agriculture along river valleys).	1900–1800: Division of Proto-Western into Proto-Central (Gr. Manding + Jogo) and Proto-SW + Soso. 1600–1500 BC: split of SE into Southern and Eastern; Proto-Southern remains in contact with Proto-Western. 1500–1400: splitting of Jo from Proto-Samogo. 1400–1300: separation of Proto-Soso + Jalonke and Proto-SW. 1150–1100 BC: separation of Soninke and Bozo. 1100–1000 BC: split of Eastern Mande into 2 branches.
1000 BC to 0	An arid crisis ca. 1000 BC. A wet period till 300 BC. A sharp drop in the rainfall after 300 BC.	About 1000 BC: a drastic shift of the population to the South. Cattle breeding to the North of 18°, dense agriculture population in the Sahel valleys, spread of metallurgy. After 300 BC: Sahara is abandoned by the Negroid population.	900–800 BC: separation of Gr. Manding and Proto-Jogo-Jeri. Separation of Seenku from Proto-Samogo. 700–600 BC: Separation of Gban and Beng from Proto-SM, migration of Gban to the South. Division of Proto-Kyenga + Shanga from Proto-Boko-Busa. 600–200 BC: Further division of Eastern and Southern. 100 BC–0: Splitting of the Great Manding.
0 to 1000 *A*D	Arid period till ca. 500 *A*D. Humid period after 500 *A*D.	After 500 *A*D, settled population of Sahel occupies the territory up to 20°–21°. Contacts with Berbers and Arabs.	Splitting of the major groups of the Mande family into individual languages.

The two main questions concerning the homeland of the Mande (i. e., the localization of the speakers of the Proto-Mande language in the second half of the 4th millennium BC and before) can be formulated as follows:

1) The North — South axis: was it Southern Sahara, with a subsequent southward movement, or the river valleys of Sahel (or even the humid area further to the South)?

2) The East — West axis: was it East (NW Nigeria — Northern Benin — Western Niger), Center (Central-Eastern Mali — Western Burkina Faso — NW Ghana) or West (SE Mauritania? Eastern Guinea? Liberia — Sierra-Leone?).

Let us try to answer the first question[15].

The Southern Hypothesis: If we assume that the Proto-Mande speakers lived in the South, we should identify them with the scarce population of the Sahel river valleys whose main source of living

[15] Cf. George Books' ([1998] and earlier papers) analysis of the influence of climate on the ancient and medieval history of the Mande-speaking groups. However, his study uses the linguistic data to a lesser extent, and it is focused mainly on the two last millennia.

was hunting, as they were (at that time) hardly acquainted with agriculture. We do not know what climatic changes could have triggered the division of Proto-Mande into Eastern and Western Mande. Their further divisions (towards the end of the 3rd millennium BC) might have been provoked by the arrival of migrants from the North during the "arid incursions" (although there is no clear evidence about any considerable migrations from the North to areas South of 16°, where Mande people live today). When the culturally advanced agriculturalists and cattle breeders, probably acquainted with metal, fled the drought in the first millennium BC, they might have met numerous ethnic groups speaking different Mande languages in the Sahel.

According to this hypothesis, we should suppose that migrants from the North, despite their incontestable cultural, technical and numerical superiority, were somehow assimilated by the scarce indigenous Mande-speaking population of Sahel, who took over their technological achievements.

The Northern Hypothesis: Proto-Mande speakers lived in Southern Sahara. The Western/South-Eastern split was probably triggered by the arid episode of ca. 3500 BC, and the arid crisis of ca. 2200 BC brought forth the further divisions of Proto-Western Mande. The subsequent divergence of the protolanguages may be explained by the population growth (which is a natural corollary of the neolithic revolution). After 1000 BC, climatic changes pushed all the Mande-speaking groups to the South of 18°, where they easily assimilated and/or chased away the scarce, culturally and technologically backward population of the Sahel river valleys.

In any case, localization of the Proto-Mande speakers as far to the South as Sierra Leone and Liberia rainforest (suggested by David DALBY) or the adjacent area further to the East (Claire GRÉGOIRE) seems highly improbable: that would mean that during the entire period in question, Mande migrations would have to take a northward direction, completely opposite to those which are actually postulated by archaeologists and justified by the history of climatic changes.

Taking into account the fact that before the first millennium BC Sahel was a swampy land, difficult to traverse, infected with tsetse fly, we can hardly postulate long-range eastward or westward migrations prior to ca. 1000 or even 500 BC, unless they passed through the North. Therefore, the great expansion of Mande-speakers along the longitudinal axe is by itself a strong argument in favor of the Northern Hypothesis.

This means that the second question does not make much sense if we assume the Southern Hypothesis, and while discussing the Western, Central and Eastern Hypotheses of the Proto-Mande homeland, in all of these cases I assume that it was localized in Southern Sahara (16–18° or further to the North).

Considering the axis East — West, so far, I do not see any archaeological or climatological facts which, confronted with linguistic data, could serve as an argument for either of the two localizations[16]. One might suppose that the emergence of metallurgy in the vicinity of Lake Chad could provide such kind of facts. However, 15th century BC is a relatively belated date; around that moment, all the major subgroups of Mande had already diverged and, most probably, moved along the longitudinal axis toward their current areas.

However, there is an elementary argument which can be taken into account in this respect. If we sort out historically documented migrations of Mande-speaking peoples (i. e., dating back to the 11th century AD at the most), it turns out that languages belonging to all the 11 groups of the Mande family are located between 3° and 12° of Western longitude. This sector can be considered as the geographical "center of gravity" of the Mande family. It seems logical to suppose that the Proto-Mande homeland was somewhere within this sector, rather than somewhere else, unless we have very strong arguments for the contrary[17].

My conclusion is: the Mande homeland at the second half of the 4th millennium BC was located in Southern Sahara, somewhere to the North of 16° or even 18° of Northern latitude and between 3° and 12° of Western longitude.

* * *

If the Proto-Mande homeland was located in southern Sahara, one can expect that terms related to agriculture and/or cattle breeding will be reconstructed for this protolanguage; on the other hand, it would hardly be possible to reconstruct terms for metallurgy. Let us try to explore the common Mande lexicon in this respect. My study is based on a comparative database which counts today a little less than 2200 roots that can presumably be reconstructed for Proto-Mande and/or its daughter protolanguages. So far, this database is not a true comparative etymological dictionary, as there is no underlying

[16] I am not an archaeologist, and my competence in this area is limited; thus, I will be thankful if scholars that are more advanced in this field of knowledge inform me of the existence of such evidence.

[17] Such an argument could, for example, constitute information that the eastern part of Sahara underwent desertification, which could have pushed people to the West. However, to my knowledge, no factors of this kind are attested for the second half of the 4th millennium BC.

phonological and lexical reconstruction of all the stages, and large quantities of available data have not yet been entered into it. Therefore, an absence of a word in my data may either mean its non-existence in the language(s), or merely reflect the fact that it has not been added yet. We should also keep in mind that available data for many Mande languages are still insufficient (although the situation has improved considerably compared to the state of 10 or 20 years ago). Therefore, this part of our study should be regarded as just a pilot survey, without any pretension to definitive conclusions.

One objective difficulty is that it is often hard to discern between true reflexes of the proto-forms and results of horizontal influences. The great majority of Mande languages lies in the area of Manding cultural influence[18], and it is often not easy at all to decide whether the item in question is borrowed from Bamana or Jula or dates back to the protolanguage of the Mande family. Let us consider the following set of forms:

***well** (**water hole**)
Soso *kɔlɔn*
Jogo *kɔ̀lɔ́(n)*
P.-Manding **xɔ̀lɔ́n*, Mandinka *kòloŋ*, Jaxanka *koloŋ*, Xasonka *xòloŋ*, Kagoro *kòló*, Maninka *kɔ̀lɟ́*, Bamana *kɔ̀lɟ́*, Marka-Dafin *kɔrɔ*
Samogo: Dzuun *kɔ̀rɔ̀n*
P.-Southern-Mande: Dan (Gwèèta) *klɔ̃ŋ̃,* Dan (Kla) *klɔ̀ŋ̄,* Dan (Blo) *klɔ̂ŋ*, Tura *kɔ̃lɔ̃ŋ̃*, Guro *kɔ̄lɔ̄*, Mwan *klɔ̀ŋ̀*, Wan *klɔ́ŋ*.

As we can see, this root is represented in 5 (out of 9) languages of the Southern Mande group — a good argument for its reconstruction on the Proto-SM level. It is also well attested in the Central group (Jogo, Manding), in Soso and in the Samogo group, which makes it a good candidate for reconstruction at the Proto-Mande level.

The problem is that ethnography of the Tura and Dan people tells us that traditionally they drew water from brooks and rivers, and where there were none, from shallow "water holes". Well sinking began quite recently, under the influence of the Jula people (i. e., Manding), and this makes us think that the word *kɔ̃lɔ̃ŋ̃* in Tura and *klɔ̃ŋ̃* &c. in Dan might be a Manding loan. The same may be true for the other Southern Mande languages.

Here is another example:

***milk**
South-Western **nɔ́nɔ́*: Mende *nɔ́nɔ́* 'milk *(of cow, goat)*', Looma *nɔnɔ*
Vai-Mokole: Kono *nɔ́nɟ́*, Koranko *nɔ́nɟ́*, *nɔ́nɔ* 'milk *(of animals)*'
P.-Manding **nɔ́nɔ*: Mandinka *nóno* 'breast milk; sour milk', Jaxanka *nono*, Xasonka *nóno*, Kagoro *nóno*, Maninka Bamana, Jula *nɔ́nɔ* 'milk *(of an animal)*', Marka-Dafin *nɔnɔ*
Samogo: Dzuun *nɔ́nɔ́n*
Southern Mande: Dan (Blo, Kla) *nɔ́nɔ́*, Dan (Gwèètaa) *nɔ̃́nɔ̃́*, *nṹnṹ*, Tura *nɔ̃́nɔ̃́*, *nɔ̃́nɔ̃́ŋ̃́*, Guro *nɔ̄nɔ̄*, Mwan *nɔ́nɔ́*, *nrɟ́*, Wan *nɔ́nɔ́*, Beng *nɔ́nɔ́*.

Here again, the word is very well represented in both of the main branches of Mande, yet we know that speakers of Southern Mande languages apply it to the tinned milk bought in grocery stores. In fact, primarily they hardly ever consume milk "naturally"; the main proprietors of livestock in the area are the Fulbe.

How shall we interpret this situation? Option one is that the word was borrowed into SM from Manding. Option two is that, when the ancestors of the speakers of SM languages moved from the northern area to the forest, they abandoned cattle-breeding, but kept the word for milk. When Manding merchants brought milk as an item of their commerce, the old word was revived.

There are many similar cases for which we do not have sufficient cultural information, so our decisions will be inevitably flawed. Nevertheless, we can still try to survey the stock of roots for cultural items whose reflexes are represented in the main branches of the Mande family[19]. Below I will provide only a tentative reconstruction of the meaning of the item and a "pre-reconstruction" of the form (no phonological reconstruction of Proto-Mande has been performed so far!). Whenever possible, comments about the reliability of the reconstruction are given.

[18] With the exception of some Eastern Mande languages, Bisa (Burkina Faso), Kyenga–Shanga and Busa-Boko-Bokobaru (northern Benin and NW Nigeria).

[19] Unfortunately, I have not yet been able to analyze the data for Eastern Mande languages — another serious shortcoming of the current study.

Social life.

Central, Southern and South-Western: ʻage-mateʼ **N-bɔ́*, ʻancestorʼ **bénbá*, ʻ(paternal?) auntʼ **téné*, ʻdamn, curseʼ **dáŋgá*, ʻfriendʼ **N-bɔ́rà*, ʻgrandmotherʼ **màmá*, ʻto greetʼ **fɔ̌*, ʻinitiationʼ **kɛ́nɛ́*, ʻlaw, interdictionʼ **tɟ́*, ʻto marryʼ **fúdúu* (borrowed into SM?), ʻeducate / obeyʼ **kóló*.

Manding — Southern Mande: ʻalbinoʼ **gbàŋ-ɓèlɛ̀*, ʻbachelorʼ **gbáláŋ*, ʻto buryʼ **bìrɪ́*, ʻdanceʼ **tan*? **dɔ̃n*?, ʻdeceiveʼ **négɛ*, ʻevilʼ **jáxu*, ʻgriotʼ **jèlɪ́* (Manding — Dan, Mano), ʻheritageʼ **xéɲé*, ʻlaughʼ **jélé*, ʻmeansʼ **fɛ̂ɛrɛ́*, ʻnamesakeʼ **tɔ́xɔ́-ma* (SM: only Dan), ʻplayʼ **tóló*, ʻstealʼ **kúmá* (?) (Jalonke, Bozo, SM), ʻtruthʼ **tùŋná* (Manding — Dan), ʻwarʼ **Kèlè*.

South-Western Mande — Southern Mande: ʻrespectʼ **ɓɛ̀lɛ́*, ʻslaveʼ **dû̀wá* .

Spiritual life.

Central, Southern and South-Western: ʻlife / soulʼ **nɪ́* .

Manding — Southern Mande: ʻfetishʼ **jò*, ʻtotemʼ **tènà* (Manding — Dan).

Trade, money relations.

Central, Southern and South-Western: ʻto borrowʼ **dɔ́ndɔ́*, ʻhundredʼ **kɛ̀mɛ́*, ʻmarketʼ **dɔ̃xɔ́*, ʻpriceʼ **sɔ̀ngɔ́*, ʻto sell / tradeʼ **fɛ̀eré*, ʻthousandʼ **wúlú*, ʻwealthʼ **nàafóló*.

Manding — Southern Mande: ʻmoneyʼ **?ódi* (Southern Mande < Manding?), ʻprofitʼ **tɔ̀nɔ́*, ʻthousandʼ **wágá* / **wálá*, ʻtradeʼ **jàagó*, ʻtwentyʼ **mùgán*.

South-Western Mande — Southern Mande: ʻto countʼ **dɔ̃dɔ̃ŋ*.

Weaving.

Central, Southern and South-Western: ‘harness of loomʼ **nɪ́irɪ́*, ʻloomʼ *xɔ̀lɛ́*, ʻloinclothʼ **N-pèrèŋ*, ʻspindleʼ **N-kèndáŋ*, ʻcotton / threadʼ **gèesá* .

Manding — Southern Mande: ʻindigoʼ **gàlá*, ʻsewʼ **xálá* (Manding — Gban), ʻthreadʼ **gáari*, ʻwaxʼ **kàŋná*, ʻweave, plaitʼ **dán* / **tán*, ʻribbonʼ **jàlá*.

South-Western Mande — Southern Mande: ʻsewʼ **sɔ́lɔŋ* (?) .

Metal work.

Manding — Southern Mande: ʻchainʼ **jɔ̀lɔ̀kɔ́* (Southern Mande < Manding?), ʻcopperʼ **N-sɪ̀rá* (cf. San: *zan*), ʻgoldʼ **sánV* (both Southern Mande terms are from Manding?).

Fishing, hunting.

Central, Southern and South-Western: ʻhookʼ **N-dóolɛ́ŋ*, ʻhunterʼ **dònsó*, fishing hook **kɔ́ŋ* (Soso — Mogofin — Southern Mande).

Agriculture.

Central, Southern and South-Western: ʻmilletʼ **ɲɔ̃* (in South-Western Mande and Vai it means ‘maize, corn’, which indicates its borrowed nature from Maninka; also represented in some Kru languages: Bete, Godie in the meaning of ʻmilletʼ); ʻriceʼ **màló* (a very reliable root; cf. in Eastern Mande: San *mɛlɛ*, Busa *múrɛ̄*, Bokobaru *mɔ́rɛ̄ɛ́*, *múrɛ̄ɛ́*, Boko *mɔ́ɛ̄*); ʻcooked riceʼ **báxáa*; ʻfonioʼ **póŋdɪ́ŋ* (a reliable root; also well attested in Atlantic languages); ʻgranaryʼ **bòndó*, ʻonionʼ **N-jàbá*.

Manding — Southern Mande: ʻfield work / fieldʼ (**xɪ́*; Southern Mande — Dan and Tura only); ʻbananaʼ **bàràndá* (?), ʻcut, mowʼ **kA̲*, ʻplatform (to chase birds*;* for a hunter)ʼ *N-gbàlá*, ʻripenʼ **mɔ̀*, ʻshed (drier)ʼ **gbá*, ʻsow (to)ʼ **dá*? **tá*?, ʻsow (broadcast)ʼ **púyɪ̀*, ʻwinnowʼ **fɪ́yɛ̀*, ʻcola nutʼ **gÒrÓ*, ʻhibiscusʼ **dă*, ʻpumpkinʼ **gɛ̀*, ʻsweet potatoʼ **wɪ́sé*, ʻyamʼ **kúù* (Soso, Manding, Dan).

South-Western Mande — Southern Mande: ʻhoeʼ **kálɪ̀* (cf. in Eastern Mande: Lebir *kàá*), ʻoil palm nutʼ **tówú*.

Cooking.

Central, Southern and South-Western: ʻpasteʼ **dèkE*, ʻspoonʼ **mɪ̀ntá*.

Manding — SM: ʻburnt part of food in a potʼ **sàná*, ʻgrindʼ **wúgù* (Bamana — Dan), ʻmortarʼ **wúlɪ̀*, ʻmushʼ **tòó*, ʻpancakeʼ **ŋɔ̀mɪ́*, ʻpowderʼ **bún*.

Artefacts.

Central, Southern and South-Western: ʻbagʼ **bɔ̀ɔtɔ́*, ʻbalaphoneʼ **báláŋ* (probably borrowed from Manding into South-Western Mande and Southern Mande), ʻdrumʼ: **bàdá*, ʻhatʼ **N-kpàbɛ́lɛ́*, ʻpotʼ **dVGV*, ʻspoonʼ **mɪ̀ntá*.

Manding — Southern Mande: ʻbasketʼ **butu-ru* (? Manding + Dan only); ʻboatʼ **gʊ́lʊ́*, ʻdug-out canoeʼ **kóŋ̀*, ʻbow (weapon)ʼ **xálá* (SM: only Wan), ʻbroomʼ **SELAN*, ʻbasketʼ (?) **gbóŋgbóŋ*, ʻcalabashʼ **fɛ̃* (SM: only Gban), ʻcowrieʼ **kòolóŋ*, ʻwhistleʼ **fɪ̀lé* (Bamana + Gban), ʻluteʼ **N-kɔ̀nɪ́*

(Southern Mande < Manding?), ʻleatherbagʼ **fóroko* (Manding — Tura), ʻmirrorʼ **dùŋalɛ́* (SM < Manding?), ʻnetʼ **jɔ̀*, ʻjarʼ **fágà* (Manding — Guro).

South-Western Mande — Southern Mande: ʻaxeʼ **jòofá*, ʻbottleʼ **sa̰ŋ̰dɛ̀*, ʻmatʼ *sábá*.

House, village.

Central, Southern and South-Western: door **kóŋ*, ʻshelter / hutʼ **bùgú*, ʻfenceʼ **jásá* (Southern Mande < Manding?), ʻhenhouse / sheep barnʼ **ƙúlù*.

Manding — Southern Mande: ʻgatehouseʼ **bùlóŋ* (Southern Mande — only Beng), ʻhouseʼ **kɔ́ɛ́*, ʻvillageʼ **só*, ʻwellʼ **kɔ̀lɔ́ŋ*.

South-Western Mande — Southern Mande: ʻhouse / villageʼ **péré*.

Wild animals.

Central, Southern and South-Western: ʻbaboonʼ **n-gbɔ̀ŋ*, ʻhippopotamusʼ **màlé*, ʻleopardʼ **ƙólí*, ʻlionʼ **jàlá*, ʻsquirrels': **N-kèrén*, **N-gànsă*, ʻvultureʼ **dûbá*.

Manding — Southern Mande: ʻeagleʼ **bíbì* (< Manding?), ʻguinea fowlʼ **Kàn* (not in Manding), ʻhareʼ **ƙáŋ* (SM — only Dan), Agama ʻlizardʼ **báƙa* (Manding — Soninke — Eastern Mande), ʻmonitor lizardʼ **N-kooDo*, ʻporcupineʼ **bàlá*, ʻsparrow / hawk / eagleʼ **ségɛ̀*, ʻflying termiteʼ **N-bíLí*, ʻturtleʼ **kùtá*, ʻwaspʼ **N-dŏndòlí*.

South-Western Mande — Southern Mande: ʻcrocodileʼ **fàalé*, **zúlù*.

Domestic animals.

Central, Southern and South-Western: ʻhorseʼ **sòó* (certainly a borrowing in Southern Mande and Eastern Mande), ʻcamelʼ **ɲɔ́gɔ́ma* (a borrowing, not later than the 1st millennium ÆD), ʻpigʼ **bóyì*.

Manding — Southern Mande: ʻcatʼ **N-jàkùmá*, ʻchickenʼ **sìisɛ́ɛ* (Southern Mande: only Wan), **tɔ̀xɔ́* (Soso, Jogo — Dan, Tura, Mano)

South-Western Mande — Southern Mande: ʻdogʼ **gbí́rà*, ʻsheepʼ **ɓála* (well attested in Kru and Atlantic languages; also in Eastern Mande).

We should also mention that Southern and Eastern Mande groups have the same root for "cow": Eastern Mande — San *dii*, Boko *zū*, Busa and Bokobaru *zù*; Southern Mande: Dan *dū*, *dù*, Tura *dílì*, Mano *dìì*, Guro *dìlì*, Yaure *tìrì*, Gban *dɔ̀dɔ̀*, *dɔ̀ɔ̀*, Mwan *drī*, Wan *dī*, Beng *zŏ*.

Even if we sort out items spread out through borrowing (which is evident, for example, for 'horse' **sòó*, 'camel' **ɲɔ́gɔ́ma*, ʻsweet potatoʼ **wí́sé* and some others), we still find a rather advanced society, one that is well acquainted with agriculture (rice, fonio, probably millet and yams), living in villages with dogs, cats, chickens, small and possibly large cattle.

However hasty and imperfect this survey of cultural vocabulary, hypothetically reconstructed for Proto-Mande, may appear, it still seems to provide more evidence for a Southern Saharan rather than Sahelian homeland.

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Appendix 1

List of the languages/dialects and sources[20]

Bamana, **Bambara** [BAM] (Manding), [Bailleul 2000].
Bandi [BAND] (South-Western Mande), [Grossmann & al. 1991]; [Heydorn 1940–1941], my personal data. *Loopholes:* bark, cloud, green, horn, liver, (not), swim.
Banka (Samogo [SAMG]), [Hochstetler 1996]. *Loopholes:* all, ashes, big, die, fat, many.
Beng [BEN] (Southern Mande), [Paperno *ms.*]. *Loopholes:* that.
Bisa-Lebir [BISA] (Eastern Mande), [Vanhoudt 1999]. *Loopholes:* fly.
Bobo (Madaré) [BOBO] (Bobo), [Le Bris & Prost 1981]. *Loopholes:* round, yellow.
Boko [] (Eastern Mande), [Jones 2004a]. *Loopholes:* (not).
Bokobaru (Eastern Mande), [Jones 2004b]. *Loopholes:* (not).
Bozo-Jenaama, **-Soroga(a)ma**, **-Sorko** [BOZO] (Soninke-Bozo): [Creissels 1992]; data received from Christiane Lauschitzky. *Loopholes:* not, this.
Bozo-Kelinga, **Xainyaxo** [BOZO] (Soninke-Bozo): [Creissels 1992]. *Loopholes:* bark, green, not, seed, stand, that, this, yellow.
Bozo-Tigemaxo, **-Tiéyaho** [BOZO] (Soninke-Bozo): [Creissels 1992]; [Guide bozo 1982]; all the loopholes were filled by Thomas Blecke.
Busa [] (Eastern Mande), [Jones 2004c]. *Loopholes:* (not).
Dafing, **Marka (Dafing)** [MARK] (Manding), [Traore 1978], occasionally [Diallo Mohamadou 1988]. *Loopholes:* horn, many, round, swim.
Dan-Blo, **Western Yacuba** [DAN] (Southern Mande), [Erman *ms.*]. *Loopholes:* (not), swim.
Dan-Gwèètaa, **Eastern Yacuba** [DAN] (Southern Mande), personal data. *Loopholes:* (not), yellow.
Dan-Kla [DAN] (Southern Mande), [Makeeva *ms.*]. *Loopholes:* bite, (not), swim, who?
Duun (Samogo [SAMG]), [Hochstetler 1996]. *Loopholes:* fat, fly, stand.
Dzuun (Samogo), [Traoré & Traoré 1998]. *Loopholes:* ashes, fat, stand.
Gban, **Gagu** [GBAN] (Southern Mande), [Le Saout 1973], AMS, some data collected by Alexandre Zheltov and Ekatherina Kotchmar. *Loopholes:* bark, full, good, green, (not), swim, that, this.
Guro, **Kweni** [GURO] (Southern Mande), [Kuznetsova & Kuznetsova *ms.*]. *Loopholes:* swim.
Jalonke, **Yalunka** [DYAL] (Soso-Jalonke), [Creissels 1988]. *Loopholes:* big, many, round, yellow.
Jeri (Jogo), [Kastenholz 2001]; [Tröbs 1998]. *Loopholes:* cloud, fat, green, swim, yellow.
Jo (Samogo [SAMG]), [Carlson 1993]; [Djilla, Eenkhoorn & Eenkhoorn-Pilon 2004]. *Loopholes:* stand.
Jogo, **Ligbi** [LIGB] (Jogo), [Braconnier *ms.*]. *Loopholes:* all, bite, come, feather, full, swim, that, this
Jula-Kong [DYUK] (Manding), [Sangaré 1984].
Kakabe (Mokole), [Vydrina *ms.*]. *Loopholes:* swim, yellow.
Kono [] (Vai-Kono), [Lessau & Kastenholz 1989] and some personal data.
Koranko, **Kuranko** [KORA] (Mokole), [Kastenholz 1987].
Kpan (Samogo [SAMG]), [Hochstetler 1996]. *Loopholes:* ashes, stand.
Kpeen (Samogo [SAMG]), [Zwernemann 1996]. *Loopholes:* ashes, black, burn, die, dry, fat, fly, full, good, green, know, many, name, neck, new, not, round, seed, sleep, smoke, sand, swim, tail, that, this, what, who, yellow.
Kpelle-Guinea [KPEL] (South-Western Mande), [Leger 1975, Konoshenko *ms.*]. *Loopholes:* (not).
Kpelle-Liberia [KPEL] (South-Western Mande), [Leidenfrost & McKay 2005]. *Loopholes:* (not).
Kyenga (Eastern Mande), [Jones 1998]. *Loopholes:* green, lie, liver, (not).
Lele (Mokole), personal data.

[20] Information for each language includes: the group which it belongs to within the Mande family; the source of lexical data (with comments, if necessary); the list of loopholes, if any. For many languages, "not" is put in brackets, which means that this word is missing in the language (being incorporated into personal pronouns). The most current alternative names are also given (those abbreviated by [Grégoire & de Halleux 1994] in brackets: **[]**).

Loko [] (South-Western Mande), [MOROZOVA *ms.*]. *Loopholes:* bark, cloud, green, long, louse, many, not, round, yellow.
Looma, **Toma** [LOMA] (South-Western Mande), [DWYER, BODEGIE & BAQUE 1981]; [SADLER 1949/2006]; [VYDRIN 1987][21]. *Loopholes:* (not).
Mandinka [MAND] (Manding), [CREISSELS, JATTA & JOBARTEH 1983].
Maninka [MAN – *Maninka of Kankan*] (Manding), [KÁNTƐ 1962/1992].
Mano [] (Southern Mande), [DEZEEUW & KRUAH 1981]; [NEAL & al. 1946][22]. *Loopholes:* all, bite, claw, feather, fly, green, neck, swim.
Mau, **Mahou**, **Mauka** [MAU] (Manding), [CREISSELS 1982]. *Loopholes:* die, round, swim.
Mende [MEND] (South-Western Mande), [INNES 1969]. *Loopholes:* feather, liver, many, not, swim, yellow.
Mogofin, **Mixifore** (Mokole), personal data. *Loopholes:* cloud.
Mwan, **Mona** [MWAN] (Southern Mande), [PEREKHVALSKAYA *ms.*]. *Loopholes:* yellow.
Numu, **Brawhani Ligbi** [NUMU] (Jogo), [PERSSON & PERSSON 1976]. *Loopholes:* not, see.
San [] (Eastern Mande), [Boo 2003]. *Loopholes:* fly, (not).
Seenku, **Seeku**, **Sembla** [SEMB] (Samogo [SAMG]), [PROST 1971]. *Loopholes:* cloud, fat, fly, green, I, louse, not, road, root, round, smoke, that, warm, yellow.
Shanga (Eastern Mande), [JONES 1998]. *Loopholes:* green, liver, (not).
Soninke, **Sarokole** [SONI] (Soninke-Bozo), [SMELTZER & SMELTZER 2001].
Soso, **Susu** [SOSO] (Soso-Jalonke), [*Lexique Susu-Français*]; [RAIMBAULT 1923]; [TOURÉ 1994]; [TOURÉ 2004]. *Loopholes:* yellow.
Tura, **Wen** [TURA] (Southern Mande), [IDIATOV *ms.*]. *Loopholes:* (not), swim.
Vai [] (Vai-Kono): [WELMERS & KANDAKAI 1974]. *Loopholes:* round.
Wan [] (Southern Mande), [NIKITINA *ms.*]. *Loopholes:* that, yellow.
Xasonka, Khas(s)onké [KHAS] (Manding), [TVEIT & DANSOKO 1993 ; KOITÉ-HERSCHEL 1981].
Yaure (Southern Mande), [TSYURUPA *ms.*], AMS. *Loopholes:* ashes, bark, green, heart, moon, not, small, swim, that, this, what, yellow.

Mande languages not in the list:
Bisa-Barka (Eastern Mande),
Blé, **Jalkuna(n)** [BLE] (Jogo),
Bolon, **Bon** [BON] (Manding),
Bozo-Tièma-Cièwe (Bozo-Soninke),
Gbin (Southern),
interethnic **Jula** of Côte-d'Ivoire [DYUV] (Manding),
Jula-Odienné [DYUO] (Manding),
Koyaga, **Kojaga (Jula)** [KOJG] (Manding),
Manya (Kan), **Mandingo** [MANY](Manding),
Sane languages [SANE] ("**northern San**", probably 4 different languages — Eastern Mande).
For large language/dialect clusters, such as **Manding** or **Dan**, only sample variants were taken.

Appendix 2

100-wordlist for 54 Mande languages and dialects[23]

all: Dan-G *pɛ̋pɛ́* [1], *gbə̀* [15]; Dan-B *kpékpê* [11]; Dan-K *gbə̀* [15]; Tura *pâĩ́*, *pâĩ́pâĩ́* [1]; Guro *fáá* [1]; Yaure *pèrɔ̰́* [11]; Gban *fɔ̋fɔ́* [1]; Mwan *kpɛ̰̀* [11]; Wan *tɛ̄ŋ̄* [22], *tú* [23]; Beng *kpà* [11]; Kpeen *sá* [18]; Kpan *sa̰a̰-po̰pe* [1], *sa̰a̰-po̰pe* [18]; Dzuun *sá-pé* [1], *sá-pé* [18]; Duun *biɛ* [17], *sa* [18]; Seenku *kpòkpò* [11]; Banka *nogo* [21]; Jo *fɔ̰̀* [19], *bàtàà* [20]; Bobo *pɛ̄pé* [1]; Bozo-J *sa̰a̰* [18]; Bozo-K *súnṵ́* [18]; Bozo-T *syɛn* [18]; Soninke *sú* [18]; Mau *bé* [17]; Jula-K *byé* [17]; Dafing *bɛ̀é* [17]; Bamana *béɛ* [17]; Maninka *béɛ* [17]; Xasonka *bée* [17]; Mandinka *bée* [17]; Koranko *béɛ* [17]; Lele *béɛ* [17]; Mogofin *béɛ* [17]; Kakabe *fɔ́* (< Pular?) [–2]; Kono *gbéɛ* [11]; Vai *gbí* [14]; Soso *bírín* [16]; Jalonke *bírín* [16]; Jeri *kpó*, *gbóŋ* [15]; Numu *kpó* [15]; Mende *pépé* [1], *kpélé* [11], *gbí* [14]; Loko *kpɛrɛ* [11]; Bandi *kpɛlɛɛ* [11]; Looma *pɛ-g* [1]; Kpelle-L *kpélɛɛ* [11], *kélee* [12]; Kpelle-G

[21] I am thankful to Daria MISCHENKO for her assistance in filling in the loopholes in the Looma list.
[22] I am thankful to Maria KHACHATURYAN for her assistance in filling in the loopholes in the Mano list.
[23] Numbers in brackets following each form are meant to indicate cognates: all cognates have one and the same number. As a rule, cognates appearing in different entries (e. g., Dan forms for "feather" and "hair") have the same number; however, the latter rule may be not respected in some instances (which does not influence the results of lexicostatistical calculation). Borrowings are provided with negative numbers and are not taken into account in the calculation.

kélee [12]; Bokobaru *píngi* [1]; Boko *píi* [1]; Busa *pínki* [1]; Lebir *fáay* [2], *kár* (*kárí*) [3], *wóo* [4]; San *lenlen* [5], *tumaa*, *tumu* [6], *yii* [7], *kuturu* [8]; Kyenga *suka* [9]; Shanga *wannì* [10].

ashes: Dan-G *yőő* [34]; Dan-B *yóó* [34]; Dan-K *yőő* [34]; Tura *yűè* [34]; Mano *yúbé* [34]; Guro *yíí*, *yíbí* [34]; Gban *βìè* [34]; Mwan *yìè* [34]; Wan *ūú* [34]; Beng *yépé* [34]; Seenku *bűkàn* [29], *ɲógɔ́* (?) [34]; Bobo *yībē* [34]; Bozo-J *sibo* [33]; Bozo-K *húlúndú* [32]; Bozo-T *xoo* [31]; Soninke *xam^{a}/$_{e}$*, *xem^{a}/$_{e}$* [30]; Mau *bùùlù* [29]; Jula-K *bùgurí* [29]; Dafing *búká* [29]; Bamana *bùgurí* [29]; Maninka *bùudi gbé*, *bùuri gbé* [29]; Xasonka *bùguti xoyi* [29]; Mandinka *bùutu*, *bùuti* [29]; Koranko *bùura* [29]; Lele *bùura; bùuya* [29]; Mogofin *bògotá* [29]; Kakabe *bùgutá* [29]; Kono *bùa*, *buwa* [29]; Vai *ɓù'á* [29]; Soso *tɛ-xubɛ* ("dust of fire") [30]; Jalonke *qúbé* [30]; Jogo *bògó* [29]; Jeri *bùgu* [29]; Numu *bògo* [29]; Mende *ndùvú* [24]; Loko *ndùhú* [24]; Bandi *nduhu* [24]; Looma *zuvu* [24]; Kpelle-L *lūū* [24]; Kpelle-G *luɣu* [24]; Bokobaru *túbu* [24]; Boko *túfu* [24]; Busa *túbu* [24]; Lebir *súu* [25]; San *ton* [26]; Kyenga *cécí* [27], *kpaso* (SP) [28]; Shanga *kwasɥ* [28].

bark: Dan-G *kǣǣ* [40]; Dan-B *kìā* [40]; Dan-K *kɤ̄* [40]; Tura *kɛ́lɛ́* [40]; Mano *kēlē* [40]; Guro *pālā* [37], *kɔ̄lɛ̄* [40]; Mwan *klōō* [40]; Wan *klóŋ* [40]; Beng *kóŋ́* [40]; Kpeen *gɔ́ɔ́-káà* [41]; Kpan *gɔɔ-kaa* [41]; Dzuun *gɔ̀ɔ̀-káá* [41]; Duun *ka'a* [41]; Seenku *kà* [41]; Banka *ka'a* [41]; Jo *kúlḭ̀ŋ* [40]; Bobo *kiēbē*, *sing. kōbā* (?) [43]; Bozo-J *gopo* [43]; Bozo-T *gɔlɔ* [40]; Soninke *fatama* [37], *korom^{i}/$_{e}$*, *kurum^{i}/$_{e}$* [40]; Mau *wòmą̀* [43]; Jula-K *fàrá* [37]; Dafing *páa*, *párá* [37]; Bamana *fàrá* [37], *ŋɔmɔ́* [43]; Maninka *fàdá* [37], *wɔnbɔ́* [43]; Xasonka *fàta* [37], *ŋòmo* [43]; Mandinka *fàta* [37], *wònbo*, *hònbo* [43]; Koranko *gbólo* [40], *kǫ-wɔnbɛ* [43]; Lele *kɔ́n-kpóle* [40]; Mogofin *kɔ-bole* [40], *wɔnbɔ* [43]; Kakabe *wónbɛ* [43]; Kono *wónbɔ* [43]; Vai *kóŋgó* [44]; Soso *kobele*, *kobole* (< Mokole *kon-bole*) [–3]; Jalonke *kóbólé* (< Mokole *kon-bole*) [–3]; Jogo *sógó* [42]; Jeri *fòroŋ* [37]; Numu *sògò* [42]; Mende *kòlɔ́* [40]; Looma *kɔlɔ-g* [40]; Kpelle-L *kɔ̄lɔ̄* [40]; Kpelle-G *kɔlɔ* [40], *kala* [41]; Bokobaru *tɛ̀ɛ* [35]; Boko *tɛ̀ɛ* [35]; Busa *tɛ̀kɛ̀* [35]; Lebir *kyí* [36]; San *ki* [36], *fɔrɔ* [37]; Kyenga *gbálá* [38]; Shanga *bái* [39].

belly: Dan-G *gwí* [45], *gú* [47]; Dan-B *gú* [47]; Dan-K *gú* [47]; Tura *gwɛ́* [45]; Mano *gí* [45]; Guro *bǭ* (?) [48]; Yaure *cì*, *cɨ̀* [45]; Gban *gɔ̀* [47]; Mwan *vɨ̄* [45]; Wan *blū* [48]; Beng *nɔ̆n* [46]; Kpeen *dó* [46]; Kpan *dǫǫ* [46]; Dzuun *dón*, *dúùn* [46]; Duun *do* [46]; Seenku *sɔ̀gɔ̀* [51]; Banka *donǫ* [46]; Jo *cɨ̀ì* [45]; Bobo *wūrù* [48]; Bozo-J *nun* [46]; Bozo-K *nùŋú* [46]; Bozo-T *nun* [46], *kusu* [47]; Soninke *nox^{o}/ø*, *nuxu-* [46]; Mau *kɔ̀ǫ́* [50]; Jula-K *kónɔ́* [50]; Dafing *kǫ̀ǫ̀* [50]; Bamana *kónɔ* [50]; Maninka *kónɔ* [50]; Xasonka *xóno* [50]; Mandinka *kóno* [50]; Koranko *búu* [49]; Lele *bú* [49]; Mogofin *bɔ́* [49]; Kakabe *bú* [49]; Kono *bú* [49]; Vai *bú* [49]; Soso *fùrí* [48]; Jalonke *kwìí* [45], *fùrí* [48]; Jogo *kɔ́(n)* [47], *fùrú* [48]; Jeri *kɔ́ŋ* [47]; Numu *kɔn* [47], *fúrú* [48]; Mende *kǒ* [47]; Loko *ko* [47]; Bandi *ko* [47]; Looma *ko-g* [47]; Kpelle-L *kōo* [47]; Kpelle-G *ko* [47]; Bokobaru *gbɛɛɛ́* [45], *nɔ̀sɛ* [46]; Boko *gbɛɛ* [45], *nɔ̀sɛ* [46]; Busa *gbɛrɛ* [45], *nèsɛ* [46]; Lebir *nɔ́* [46]; San *nɔ̀* [46]; Kyenga *gbèlè* [45]; Shanga *gwèè* [45].

big: Dan-G *gbé* [69], *kpíí* [71]; Dan-B *và* (?) [60]; Dan-K *gbàǹ* [64], *kpíí* [71]; Tura *gbɛ́ɛ́* [69]; Mano *gbùò* [64]; Guro *bɛ̨nɛ̨* [69]; Yaure *dą̀* [70]; Gban *blɛ̆* [60]; Mwan *gbɛ̨nè*, *gbɛ̨tɛ̨* [69]; Wan *bálè* [60], *gbɛ̨tɛ̨* [69]; Beng *béɛ̄* (?) [69]; Kpeen *brá* [60]; Kpan *bla* [60]; Dzuun *blà* [60]; Duun *bio-ma* [60]; Seenku *bərē* [60]; Jo *gba-na* [68], *gbē* [69]; Bobo *gbágá* [64]; Bozo-J *banu*, *burǫ ?* [67]; Bozo-K *hùlò* [66]; Bozo-T *xolo* [66]; Soninke *xòor-é* [66]; Mau *bèlèbélé* [65], *bwóŋ* [67]; Jula-K *bèlebéle* [65], *bòn* [67]; Dafing *bǫ́* [67]; Bamana *bèlebéle* [65], *bǫ̌* [67]; Maninka *bèlebéle* [65], *bǫ̌* [67]; Xasonka *bèlebele-ba* [65], *bùŋ* [67]; Mandinka *búŋ* [67]; Koranko *bèlebele* [65], *kólo* [66], *bǭ* [67]; Lele *bèlebele* [65], *kólo* [66]; Mogofin *kólo* [66]; Kakabe *bélebele* [65]; Kono *kóo* [66]; Vai *kò'ò* [66]; Soso *gbo* [64], *bèlebélè* [65]; Jogo *gbùu* [64]; Jeri *bála(n)* [60]; Numu *gbɔ́ɔn* [64]; Mende *mbàwà* [60]; Loko *mba* [60]; Bandi *wàla-wala* [60]; Looma *bala* [60]; Kpelle-L *ŋá-wāā* [60], *kétɛ* [61], *kpàyakpaya* [62], *wūlɛ́ŋ* [63]; Kpelle-G *kɛnɛ* [61], *kpeakpea* [62]; Bokobaru *bítá* [53], *ìsi* [54]; Boko *zǫɔ* [52]; Busa *zǫkǫ̀* [52]; Lebir *búrgú* [55]; San *dadara* [56], *gole* [57], *kaara* [58]; Kyenga *ɣàsì* [54]; Shanga *gwà* [59].

bird: Dan-G *màà* [72]; Dan-B *mâ* [72]; Dan-K *màà* [72]; Tura *màà* [72]; Mano *mɔ̀ɔ̀* [72]; Guro *mīā-né* [72]; Yaure *lő-bą̀* [72]; Gban *są̆* [74]; Mwan *māā* [72]; Wan *bɔ̀lè* [72]; Beng *sìèŋ́* [74]; Kpeen *kàń* [73]; Kpan *kąązɨ* [73]; Dzuun *kèyn* [73]; Duun *ka* [73]; Seenku *kàllè* [73]; Banka *kana* [73]; Jo *ɲàànáí* [73]; Bobo *yàlô* [73]; Bozo-J *konu* [73]; Bozo-K *hɔnɔ̀ŋ-ɔ́* [73]; Bozo-T *xɔni* [73]; Soninke *yeliN* / *yèlíŋŋé* [73]; Mau *kɔ̀ǫ̀* [73]; Jula-K *kònó* [73]; Dafing *kwǫ́ni* [73]; Bamana *kònó* [73]; Maninka *kònɔ́* [73]; Xasonka *xòno* [73]; Mandinka *kùnu* [73]; Koranko *kòndɛ* [73]; Lele *kòndɛ* [73]; Mogofin *kòndén* [73]; Kakabe *kòndɛ* [73]; Kono *kònde* [73]; Vai *kòndé* [73]; Soso *xònǐ* [73]; Jalonke *qɔ̀ń*, *qɔ̀ǹ-díí* [73]; Jogo *kòndɛrɛ* [73]; Jeri *kóndi* [73]; Numu *kǫ́ndèré* [73]; Mende *ŋɔ̀nǐ* [73]; Loko *ŋɔ̀ì*, *ɣɛ̀ɨ̀* [73]; Bandi *ɣɔ̀nɨ̀ɨ́* [73]; Looma *wɔni*, *ŋɔni* [73]; Kpelle-L *ŋɔ̄nɨ̄* [73]; Kpelle-G *wɛni*, *wɔni* [73]; Bokobaru *bąá* [72]; Boko *bą* [72]; Busa *bą* [72]; Lebir *bèɛm* |*bèènɨ́*| [72]; San *bàan* [72]; Kyenga *bą* [72]; Shanga *bąànɨ́* [72].

bite: Dan-G *kɥ́ sɔ̨́ɔ̨́* 'catch with teeth' [77]; Dan-B *kɥ̀ ɤ̄ sɔ́ ká* "catch with teeth" [77]; Tura *sɔ̋ dɔ́* 'put teeth' [77]; Guro *súé dɔ̄* [77]; Yaure *šé-kà* [77]; Gban *kɪ́óú* [79]; Mwan *sɔ̨́ kpá* [77]; Wan *wɛ̨nì* [78]; Beng *sɔ́-bí* [77]; Kpeen *kɨ̨* [75]; Kpan *xɨ̨-ma* [75]; Dzuun *cín* [75]; Duun *cyi* [75]; Seenku *kōn* ~ *kwōn* [75]; Banka *kyɨ̨* [75]; Jo *ɲɨ̨́ɨ́* [75]; Bobo *ŋwī* [75]; Bozo-J *sɨ̨* (?) [75]; Bozo-K *xwi* [75]; Bozo-T *xoy* [75]; Soninke

xíɲí [75]; Mau *kɨ́ŋ* [75]; Jula-K *kín* [75]; Dafing *cɨ̀ɨ̀* [75]; Bamana *cɨ́*, *kɨ́* [75]; Maninka *kɨ́* [75]; Xasonka *kíŋ* [75]; Mandinka *kíŋ* [75]; Koranko *kɨ́* [75]; Lele *kín*, *cín* [75]; Mogofin *kɨ́* [75]; Kakabe *kín* [75]; Kono *cɨ́* [75]; Vai *kíŋ* [75]; Soso *xín* [75]; Jalonke *qíń* [75]; Jeri *ɲíŋ*, *ɲéŋ* [75]; Mende *ɲî* [75]; Loko *ɲí(ŋ)* [75]; Bandi *ɲí* [75]; Looma *gɨ́ɨ* [75]; Kpelle-L *ɲíŋ* [75]; Kpelle-G *ɲiŋ* [75]; Bokobaru *tɛ* [75]; Boko *kɨ́* [75]; Busa *só* [76]; Lebir *sɔ̀ dá* "put teeth" [77]; San *sɔn dɔ* "stand teeth" [77]; Kyenga *sɔ́ ká* [77]; Shanga *ɣɨ́ɨ́* [75].

black: Dan-G *tɨ̄ɨ̄* [80]; Dan-B *tɨ̄ɨ̄* [80]; Dan-K *tɨ̄* [80]; Tura *tɨ̋ɨ̋* [80]; Mano *tɨ̄ɨ̄* [80]; Guro *tɨ̄* [80]; Yaure *tɨ̄ɨ̄-dī* [80]; Gban *tɨ̋ɛ̋* [80]; Mwan *tɨ̄* [80]; Wan *tɨ̄* [80]; Beng *tɨ̄ɨ̄* [80]; Kpan *ɸẅɛɛy* [80]; Dzuun *ʦìù* [80]; Duun *siu-ma* [80]; Seenku *tɨ̄ɛ̄* [80]; Banka *sii* [80]; Jo *mìn* (?) [84]; Bobo *dūngū* [85]; Bozo-J *pi* [83]; Bozo-K *fina* [83]; Bozo-T *pin* [83]; Soninke *finna*, *fina* ('become black') [83], *bìnné* [84]; Mau *fɨ̀ŋ* [83]; Jula-K *fìn* [83]; Dafing *pɨ́* [83]; Bamana *fɨ̋* [83]; Maninka *fɨ̋* [83]; Xasonka *fìŋ* [83]; Mandinka *fìŋ* [83]; Koranko *fɨ̀* [83]; Lele *fín-dè* [83]; Mogofin *fɨ̀* [83]; Kakabe *fín* [83]; Kono *fɨ̀* [83]; Vai *fíŋ* [83]; Soso *fɔ́ɔrɔ́* [82]; Jalonke *fɔ́ɔ́rɛ̀* [82]; Jogo *gbùú* [81]; Jeri *gbɔ̀gɔ* [81]; Numu *gbùu* [81]; Mende *tèlí* [80]; Loko *tɛi* [80]; Bandi *tɛi(ŋ)* [80]; Looma *tei(g)* [80]; Kpelle-L *tɛ̄ī* [80]; Kpelle-G *tɛɣi* [80]; Bokobaru *si-a* [80]; Boko *sɨ́-a* [80]; Busa *sɨ́-ra* [80]; Lebir *tíndà* [80]; San *tī* [80]; Kyenga *ci* [80]; Shanga *sii* [80].

blood: Dan-G *yɔ̰̀ɔ̰̀* [88]; Dan-B *yɔ̰̀ɔ̰̀* [88]; Dan-K *yɔ̰̀ɔ̰̀* [88]; Tura *yùɛ̰̀* [88]; Mano *bai* [90]; Guro *yɛ̰̄ɛ̰́* [88]; Yaure *yɛ̰̀* [88]; Gban *wɔ̰̀* [88]; Mwan *yɛ̰̄ɛ̰̄* [88]; Wan *yɛ́mɨ̄* [88]; Beng *wàɲ* [88]; Kpeen *tùmó* / *túmù* [94]; Kpan *thɨɨ* [94]; Dzuun *ʦìɪ̀n* [94]; Duun *timi* [94]; Banka *mila* [95]; Jo *cùŋ* [94]; Bobo *tò* [94]; Bozo-J *jolo* [91]; Bozo-K *jéri* [91]; Bozo-T *jɔlɔ* [91], *deu* [93]; Soninke *fàré* [92]; Mau *yèè* [91]; Jula-K *jòrí* [91]; Dafing *yúrú* [91]; Bamana *jòlí* [91]; Maninka *jèlí* [91]; Xasonka *jélu* [91]; Mandinka *yèle* [91]; Koranko *yèle* [91]; Lele *jìlí* [91]; Mogofin *báse* [90]; Kakabe *jèli* [91]; Kono *wíi* [91]; Vai *wò'í* [91]; Soso *wùlí* [89]; Jalonke *wùlí* [89]; Jogo *ɲìní* [88]; Jeri *ɲìnì* [88]; Numu *ɲìnì* [88]; Mende *ŋàmá* [88]; Loko *ŋàɰ̀à* [88]; Bandi *ŋàawɔ* [88]; Looma *ŋáma* [88]; Kpelle-L *ŋɑ̄ɑ̄*, *ŋāmā* [88]; Kpelle-G *ɲama* [88]; Bokobaru *ɣàrú* [87]; Boko *ɣàú* [87]; Busa *ɣàrú* [87]; Lebir *mà* [86]; San *mà* [86]; Kyenga *ɣɑma* [88]; Shanga *ɣàma* [88].

bone: Dan-G *gā* [96]; Dan-B *gā* [96]; Dan-K *gà* [96]; Tura *wéé* [98]; Mano *wélé* [98]; Guro *wɔ́lé* [98]; Yaure *wélé* [98]; Gban *gbɰ̋* (?) [96], *wlɨ̋*, *wlɨ́* [98]; Mwan *bɛ̄lé* [99]; Wan *ɔ́ŋ* [98]; Beng *wlé* [98]; Kpeen *kùwɔ́* [98]; Kpan *xɔ* [98]; Dzuun *xɔ́* [98]; Duun *kwɔ* [98]; Seenku *kɔ* [98]; Banka *kwɑɑ* [98]; Jo *wɔ́* [98]; Bobo *wɔ̄nón* [98]; Bozo-J *kwɑ* [98]; Bozo-K *hwɔ́* [98]; Bozo-T *xɔn* [98]; Soninke *xóttʲ/ɐ* [98]; Mau *kóő* [98]; Jula-K *kóró* [98]; Dafing *kùrù* [98]; Bamana *kólo* [98]; Maninka *kólo* [98]; Xasonka *xúlu* [98]; Mandinka *kúlu* [98]; Koranko *kólo* [98]; Lele *kólo* [98]; Mogofin *kólo* [98]; \Kakabe *kólo* [98]; Kono *kúu* [98]; Vai *kúú* [98]; Soso *xɔ́rɛ̀* [98]; Jalonke *qɔ́rɛ̀* [98]; Jogo *yélé* [98]; Jeri *yélì* [98]; Numu *lígé*, *lígén* [98]; Mende *kálé* [97]; Loko *káé* [97]; Bandi *kàalɛ́* [97]; Looma *kai(g)* [97]; Kpelle-L *káo* [97]; Kpelle-G *kɔw* [97]; Bokobaru *wá* [96]; Boko *wá* [96]; Busa *wá* [96]; Lebir *yàá* [96]; San *we* [96]; Kyenga *yèlɛ* [96]; Shanga *ɣáwé* [96].

breast: Dan-G *yɔ́* [100]; Dan-B *yɔ́* [100]; Dan-K *yɔ́* [100]; Tura *yɔ̋* [100]; Mano *yɔ́* [100]; Guro *yɔ́* [100]; Yaure *yɔ́* [100]; Gban *yɨ̋* [100]; Mwan *yɔ̰̀* [100]; Wan *yɔ̰̄ŋ́* [100]; Beng *ɲɔ́n* [100]; Kpeen *cá* [100]; Kpan *cɛ* [100]; Dzuun *cén* [100]; Duun *cɛ* [100]; Seenku *kyè* [100]; Banka *kɛ̰na* [100]; Jo *ɲéɪ́* [100]; Bobo *ɲīngī* [100]; Bozo-J *kanu* (?) [100]; Bozo-K *húŋɔ́* [100]; Bozo-T *xen* [100]; Soninke *kòmbé* [103]; Mau *sɨ̰́ŋ* [100]; Jula-K *sín* [100]; Dafing *sɨ̀* [100]; Bamana *sɨ́* [100]; Maninka *sɨ́* [100]; Xasonka *súnjii* [100]; Mandinka *súnju* [100]; Koranko *kɨ́*, *sɨ́* [100]; Lele *sùusɛ* [102]; Mogofin *síngè* [100]; Kakabe *síngi* [100]; Kono *súsu* [102]; Vai *sùùsùù* [102]; Soso *xíɲé* [100]; Jalonke *qíńjé* [100]; Jogo *cén* [100]; Jeri *cɨ́ɛ̰*, *kɨ́ɛ̰* [100]; Numu *kyè* [100]; Mende *ɲíní* [100]; Loko *ɲɨ́* [100]; Bandi *ɲìní* [100]; Looma *ŋíni*, *ɲini* [100]; Kpelle-L *ŋíni* [100]; Kpelle-G *ɲini* [100]; Bokobaru *ɲɔ́* [100]; Boko *ɲɔ̋* [100]; Busa *ɲɔ́* [100]; Lebir *ɲɔ́* [100]; San *ɲɔ* [100]; Kyenga *yɔ́* [100]; Shanga *diyófàà* [101].

burn: Dan-G *gɔ̋* [107]; Dan-B *gúɔ́* [107]; Dan-K *gɔ̋* [107]; Tura *pàì-da* [104]; Mano *gélé* [107]; Guro *wɑ̄ɑ̰̀* [105]; Yaure *té-bìlì* [104]; Gban *kɛ̀* [107]; Mwan *kpá-cɪ̄é* [104]; Wan *lígì*, *té-lɔ̀* [104]; Beng *ŋūān* [105]; Kpan *zuu-ma* [108]; Dzuun *ʤú* [108]; Duun *zu* [108]; Seenku *dyòn* [108]; Banka *ju* [108]; Jo *bìlìtúrù* [117]; Bobo *ŋwènè*, *ŋwùnà* [107]; Bozo-J *boi* [116]; Bozo-K *bu* [116]; Bozo-T *kele* [107], *buo* [116]; Soninke *buyi* / *-ni*, *bi* / *biini*, *buya* [116]; Mau *mɑ́ɑ́ŋ* [113], *sẅèèŋ* [114], *kɨ́ŋ* [115]; Jula-K *jèní*, *jèní* [114]; Dafing *zɛ́ɨ̋* [114]; Bamana *ménɛ*, *mána* [113], *jèní* [114]; Maninka *ménɛ*, *ménɛ̰* [113], *jèní*, *jàní* [114]; Xasonka *jàni* [114]; Mandinka *mála* [113], *jàni* [114]; Koranko *mìndɑ* [113]; Lele *mìnda* [113]; Mogofin *bìntɑ́* [113]; Kakabe *bíntan* [113]; Kono *míndа* [113]; Vai *bìndá* [113]; Soso *gan* [112]; Jalonke *gàn* [112]; Jogo *dŏ(n)* [108]; Jeri *sìraŋ* [111]; Numu *kɑ́ŋɔ́ŋ* [110]; Mende *mɔ́* [109]; Loko *mɔ́(ŋ)* [109]; Bandi *mɔ̀* [109]; Looma *gála* [107]; Kpelle-L *kéreŋ* [107]; Kpelle-G *kéleŋ* [107]; Bokobaru *té kɥ* [104]; Boko *té kɥ* [104], *kpásá* [106]; Busa *té kɥ* [104], *kpátá* [106]; Lebir *sé sa* [104]; San *tɛ koa* [104]; Kyenga *cé kɥ́* [104]; Shanga *le kɥ* [104].

claw, **nail**: Dan-G *sūɑ̋ɑ̋* [123]; Dan-B *sòò* [123]; Dan-K *sűɾ̋* [123]; Tura *sùè* [123]; Guro *sɔ̀nè* [123]; Yaure *sɔ̰̀rè* (AMS) [123]; Gban *kɛ̋sɨ* (AMS) [126]; Mwan *srɔ̀* [123]; Wan *srɔ́ŋ* [123]; Beng *klɔ̄ŋ̄* [119]; Kpeen *ɲàŋ-káà* [124]; Kpan *ẅɛ̰ɛ̰j-kaa* [124]; Dzuun *ɲéyn-káá* [124]; Duun *sii-ma'a* [124]; Seenku *kpènlèn-ká* [124]; Banka *kyɛ'ɛdika'a* [130]; Jo *gbɛ̰́ná-kùlɨ̰́ŋ* [124]; Bobo *kiébé*, *pl. kóbá* [129]; Bozo-J *kobɛ̰* [129]; Bozo-K *kòfó*

[129]; Bozo-T *kewen* [129]; Soninke *ségéɲé* [128]; Mau *sẅɛ̧ɛ́ŋ* [123]; Jula-K *sɔ̀nɪ́* [123]; Dafing *swɛ̀i̧* [123]; Bamana *sɔ̀nɪ́*, *sɔ̀nɪ́* [123]; Maninka *sòrɪ́* [123]; Xasonka *sòniŋ* [123]; Mandinka *ŋɔ̀nsiŋ*, *ŋɔ̀riŋ*, *ŋɔ̀oriŋ*, *ŋɔ̀oliŋ* [126]; Koranko *sùrɪ̨* [123]; Lele *ɲànsɪ́* [126]; Mogofin *ŋànsɪ́n* [126]; Kakabe *sɔ̀ɔrin* [123]; Kono *yáansen* [126]; Vai *kènjɪ̀* [126]; Soso *xálé* [124]; Jalonke *qálɪ̀* [124]; Jogo *bólódé-ŋàì* (“finger’s thorn”) [124]; Jeri *kàá-ɲɪ̀ŋ* [125]; Numu *ŋáɪ́n* [124]; Mende *ngé-ngáú* [124]; Loko *nge-ngau* [124]; Bandi *sai(ŋ)*, *sà-ɣɔ́ɔ́(ŋ)* [123]; Looma *sa̧i(g)* [123]; Kpelle-L *ŋàlêŋ* [124]; Kpelle-G *ɲaniŋ* [124]; Bokobaru *ɣɔŋ́kɔ̀kɔ̀* [121]; Boko *ɣɔ-kɔ̀ɔ̄* [121]; Busa *ɣárúkɔ̀kɔ̀* [121]; Lebir *ɲíkʊ́ntìm* [118]; San *gòon tɔ́n* [120]; Kyenga *ɣɔkɔ̀kɔ̀* [121]; Shanga *hɪ̨́ɪ́* [122].

cloud: Dan-G *dɩ̃ɩ́ṹ* [141], *dã̄-kpóŋ̃* [143]; Dan-B *dã̄-kpɤ̃* [143]; Dan-K *dɔ̃* [141]; Tura *dòò* [141]; Mano *lúélúé* [132]; Guro *lólú* [141]; Yaure *lɔ́lɯ́-kwèɪ́* [141]; Gban *lɔ̃* [141]; Mwan *lā-flé-pú* [143]; Wan *nàŋ-gbànɪ́-pú* [143]; Beng *ècɪ́* [142]; Kpeen *ɲìáŋgà* [149]; Kpan *xuɔ* [145]; Dzuun *ŋáá-múnún* [148]; Duun *kabakaba* [145]; Banka *kava* [145]; Jo *lòŋ* [141]; Bobo *dàbà* (?) [145]; Bozo-J *kaba* [145]; Bozo-K *habaa-foluu* [145]; Bozo-T *tile* (?) [141]; Soninke *xaba*, *kaba* [145], *tabulle*, *tebulle* [146]; Mau *kàwà* [145]; Jula-K *kàwá* [145]; Dafing *kábá* [145], *sa̧* [147]; Bamana *bɪ́rinka*, *máranka* [140], *kàbá* [145], *múnta̧*, *múnta* [148]; Maninka *bɪ́dika*, *bɪ́rika*, *mɪ́dika*, *mɪ́digba* [140], *kàbá* [145]; Xasonka *xàba* [145]; Mandinka *mɪ̀naayɪ́* (?) [140], *(sán-)kàba* [145]; Koranko *bánda-fɪ̨* (“black sky”) [144]; Lele *dúye* [141], *bánda-nɔɔ* (“sky dirt”) [144]; Kakabe *dúulɛ* [141]; Kono *bánda gbɛ́* (“sky-white”) [144]; Vai *ɓánda ɓɨ̀à̰ɛ́* [144]; Soso *luxu* (?) [141]; Jalonke *tùnègwɪ́ɪ́* (“sky excrement”) [565]; Jogo *bɪ́rɪ́gá(n)* [140]; Numu *kyɪ́* (‘rain, cloud’) [139]; Mende *ngèlé-gata* “compound of the sky” [137]; Looma *tona-bi(g)* (“rain-heavy”?) [565]; Kpelle-L *ɣēlē-kɔ̄lɔ̄ŋ kōlē* “the white of the sky” [137]; Kpelle-G *tulo* [565]; Bokobaru *luguú* (?) [141], *lòu* [132]; Boko *lèu* [132], *luabɛ-puana* [133]; Busa *luku* (?) [141], *lègu̧* [132]; Lebir *wàrkv* [134]; San *la-bara* [135]; Kyenga *búlú* [136]; Shanga *lɛ-kɪ́sɪ́nà* [135].

cold: Dan-G *nɛ̃́nɛ̃́* [151], *sæ̀æ̀* [154]; Dan-B *néné* [151], *sàà* [154]; Dan-K *nɛ̃́nɛ̃́* [151], *šɪ́àà* [154]; Tura *nĩ́nĩ́* [151]; Mano *néné* [151], *dɔ́ɔ́lɔ́* [153]; Guro *dùnù* [153]; Yaure *tɔ̃rɔ̃-dɔ̃rɔ̃* [153]; Gban *βɔ̰̀ù* [152]; Mwan *nɪ̀ɪ̀nɪ́* [151]; Wan *lèlè*, *lrè* [151], *dɔ̀lɔ̄* [153]; Beng *nɛ́nɛ́* [151]; Kpeen *mɪ́ɪ̀* [151], *kɪ̀ɪ̀má* [156]; Kpan *makai* [151]; Dzuun *mùnkééy* [151]; Duun *mɪŋkɛ̨* [151]; Seenku *mɪ̄nɪ̄* [151]; Banka *mixya* [151]; Jo *šɪ́ɪ́* [156]; Bobo *lü* [159]; Bozo-J *muun* [158]; Bozo-K *mùnún* [158]; Bozo-T *munan* [158]; Soninke *mùllé* [158]; Mau *nɛ́nɛ̨́* [151], *swá̧á̧* [156]; Jula-K *nénɛ* [151]; Dafing *nèɛ* [151], *swɔ̨ɔ̨* [156]; Bamana *nénɛ* [151], *súma* [156]; Maninka *nénɛ* [151], *súma* [156]; Xasonka *néne* [151], *súma* [156]; Mandinka *néne* [151], *súmaa* [156]; Koranko *kɪ́ma* [156]; Lele *kyɪ́maa* [156]; Mogofin *kɪ́ma-rɛ̨* [156]; Kakabe *cɪ́ima*, *kɪ́ma* [156]; Kono *cɪ́ma* [156]; Vai *kɪ́má* [156]; Soso *xinbeli* [157]; Jalonke *qɪ́ńbèlɪ́* [157]; Jogo *kómá* [156]; Jeri *kɪ́ma*, *kúma* [156]; Numu *kpɔ̨ɔ̨́* [156]; Mende *kɔ́lé* [150]; Loko *kɔɔlɛ* [150]; Bandi *kɔ̀lé* [150]; Looma *kɔlɛ* [150]; Kpelle-L *kɔ́lɛ* [150]; Kpelle-G *kwɛɛlɛ* [150]; Bokobaru *yɪ̨̀ɪ̨̀* [151]; Boko *niɛ̄* [151]; Busa *yɪ́-da* [151]; Lebir *ɲɛ̀ɛ̀nɪ́* [151]; San *nɛŋ*, *ɲɛŋ*, *ɲaŋ* [151]; Kyenga *nini* [151]; Shanga *ɣáyà* [155].

come: Dan-G *nū* [164]; Dan-B *nū* [164]; Dan-K *nù* [164]; Tura *nú* [164]; Mano *nū* [164]; Guro *lʊ́* [164]; Yaure *lʊ́* [164]; Gban *nù* [164]; Mwan *nū* / *nú* [164]; Wan *zò* [165]; Beng *nū̧-lè* [164]; Kpeen *dánà* (?) [168]; Kpan *naa-ma* [168]; Dzuun *nà* [168]; Duun *na-mɪ̨* [168]; Seenku *nà* [168]; Banka *na* [168]; Jo *nā* [168]; Bobo *nä* [168]; Bozo-J *be* [169]; Bozo-K *bye* [169]; Bozo-T *be* [169]; Soninke *rɪ́i* [170]; Mau *na̧* [168]; Jula-K *nà* [168]; Dafing *ná* [168]; Bamana *nă* [168]; Maninka *nă* [168]; Xasonka *nà* [168]; Mandinka *nàa* [168]; Koranko *nà* [168]; Lele *nà* [168]; Mogofin *nà* [168]; Kakabe *nàa* [168]; Kono *nà* [168]; Vai *ná* [168]; Soso *fáá* [166]; Jalonke *fáá* [166]; Jeri *sá* [163]; Numu *yá* [167]; Mende *pá* [166]; Loko *pá* [166]; Bandi *pa* [166]; Looma *pa* [166]; Kpelle-L *pá* [166]; Kpelle-G *pa* [166]; Bokobaru *mɔ́* [160]; Boko *mɔ́* [160]; Busa *mɔ́* [160], *su* [161]; Lebir *bʊ̌r* [162], *zá* [163]; San *daa* / *die* [163]; Kyenga *nú* [164]; Shanga *nu* [164].

die: Dan-G *gā* [171]; Dan-B *gā* [171]; Dan-K *gà* [171]; Tura *gá* [171]; Mano *gà* [171]; Guro *gā* [171]; Yaure *kà* [171]; Gban *gà* [171]; Mwan *gā* [171]; Wan *ká* [171]; Beng *gā* [171]; Kpan *sa-ma* [171]; Dzuun *sán* [171]; Duun *voo* [176]; Seenku *kyì* / *kyiè* / *kyɪ̀inè* [174]; Jo *bèenɪ́*, *bèenú* (?) [176]; Bobo *sìrɪ̄* [175]; Bozo-J *kale* [174]; Bozo-K *sa̧* [171]; Bozo-T *kale* [174]; Soninke *kàrá* [174]; Jula-K *sà* [171], *fàgá* [173]; Dafing *sá* [171], *páá* [173]; Bamana *să* [171]; Maninka *să* [171]; Xasonka *sà* [171]; Mandinka *sàa* [171], *fàa* [173]; Koranko *fàga*, *fàa* [173]; Lele *fàa* [173]; Mogofin *fàgá* [173]; Kakabe *fàgá* [173]; Kono *fàa*, *fà* [173]; Vai *fàá* [173]; Soso *faxa* [173]; Jalonke *báá* [172]; Jogo *kpá̧* [171]; Jeri *kpà̧* [171]; Numu *kpà̧* [171]; Mende *hă* [171]; Loko *hă* [171]; Bandi *sà* [171]; Looma *saa* [171]; Kpelle-L *sāā* [171]; Kpelle-G *ha* [171]; Bokobaru *ga* [171]; Boko *gá* [171]; Busa *ga* [171]; Lebir *gà* [171]; San *ga̧* / *giɛ̨* [171]; Kyenga *ga* [171]; Shanga *ga* [171].

dog: Dan-G *gbɛ̰̂* [177]; Dan-B *gbɛ̰̃* [177]; Dan-K *gbɛ́* [177]; Tura *gbɛ̃́ɛ́* [177]; Mano *gbá* [177]; Guro *bɛ̃nɛ̃* [177]; Yaure *plɛ̨* [177]; Gban *kpűkpɔ̃* [178]; Mwan *gbą̀ą̀* [177]; Wan *gbą̄nɛ̄* [177]; Beng *jēɳ̄* [177]; Kpeen *byêw* [177]; Kpan *ɓii* [177]; Dzuun *vì* [177]; Duun *vie* [177]; Seenku *dyɪ̀gè*, *dyɪ́gè* [177]; Banka *via* [177]; Jo *kfūū* (?) [181]; Bobo *gbègē* [177]; Bozo-J *kɒŋgo-ro* [182]; Bozo-K *mùnú* [181]; Bozo-T *guun* [181]; Soninke *wùllé* [181]; Mau *wùù* [181]; Jula-K *wùrú* [181]; Dafing *wúrú* [181]; Bamana *wùlú* [181]; Maninka *wùlú* [181]; Xasonka *wùlu* [181]; Mandinka *wùlu* [181]; Koranko *wùlu* [181]; Lele *wùlu* [181]; Mogofin *wùlú* [181]; Kakabe *wùlu* [181]; Kono *wùu* [181]; Vai *wṵ̀ú* [181]; Soso *bàré* [180]; Jalonke *bàré* [180]; Jogo

dàsmà [179], *wùlú* [181]; Jeri *wùlu* [181]; Numu *dɔ̀sìa̰n* [179]; Mende *ngílà* [177]; Loko *njíâ* [177]; Bandi *ngila* [177]; Looma *gile* [177]; Kpelle-L *ɣílâ* [177]; Kpelle-G *yile* [177]; Bokobaru *gbɛ́é* [177]; Boko *gbɛ* [177]; Busa *gbɛ* [177]; Lebir *gí`*, *gí`*, *gyé`* [177]; San *gí* [177]; Kyenga *gbɛ* [177]; Shanga *gɛ̀* [177].

drink: Dan-G *mū* [183]; Dan-B *mū* [183]; Dan-K *mɑ̰́ŋ* [183]; Tura *mí* [183]; Mano *mī* [183]; Guro *mi̱ní̱* [183]; Yaure *mìnì* [183]; Gban *dą* [184]; Mwan *mī* [183]; Wan *yrɔ́* [185]; Beng *mīn* [183]; Kpeen *mì* [183]; Kpan *mi̱i̱-ma* [183]; Dzuun *mìn* [183]; Duun *mi̱* [183]; Seenku *mī* [183]; Banka *mi̱* [183]; Jo *mūnū* [183]; Bobo *mènē* [183]; Bozo-J *mɛ* [183]; Bozo-K *mɛ* [183]; Bozo-T *mɛn* [183]; Soninke *mìní* [183]; Mau *mì̱ŋ* [183]; Jula-K *mìn* [183]; Dafing *mí* [183]; Bamana *mǐ̱* [183]; Maninka *mǐ̱* [183]; Xasonka *mìŋ* [183]; Mandinka *mìŋ* [183]; Koranko *mì̱* [183]; Lele *mìn* [183]; Mogofin *mǐ̱* [183]; Kakabe *mìn* [183]; Kono *mì̱* [183]; Vai *mǐ* [183]; Soso *mǐn* [183]; Jalonke *mìń* [183]; Jogo *mĕn* [183]; Jeri *mè(n)* [183]; Numu *méŋ* [183]; Mende *kpɔ̀lé* [186]; Loko *kpɔ́è* [186]; Bandi *kpɔ̀lé* [186]; Looma *kpóale* [186]; Kpelle-L *kpēlē* [186]; Kpelle-G *kpele* [186]; Bokobaru *mi* [183]; Boko *mi* [183]; Busa *mi* [183]; Lebir *mì* [183]; San *mi* / *mii* [183]; Kyenga *mi* [183]; Shanga *mi* [183].

dry: Dan-G *kpɛ̋ɛ̋*, *kpɛ̋æ̋* [192]; Dan-B *kpǽǽ* [192]; Dan-K *kpɑ́ɑ́* [192]; Tura *kpɛ́ɛ́* [192]; Mano *kpálá-kwą̀* [192]; Guro *gā* [193], *wā-wā* [194]; Yaure *kà* [193]; Gban *gɛ̀* [193]; Mwan *kpàà* [192]; Wan *kpálà* [192]; Beng *gàlē* [193]; Kpan *goo-ma* [192]; Dzuun *gɔ̀rɔ̀* [192]; Duun *gɔrɔ-ma* [192]; Seenku *gɔ̃ɔ̃* [192]; Banka *gwɛ* [192]; Jo *fùrùmą̀ą̀* [199]; Bobo *kwɪ̄ɛ̄* [192]; Bozo-J *guɔ* [197]; Bozo-K *gogi* [197]; Bozo-T *goin* [197]; Soninke *kooro* [192], *kaawa* [198]; Mau *yà*, *jà* [196]; Jula-K *jà* [196]; Dafing *yáa* [196]; Bamana *jă* [196]; Maninka *jă* [196]; Xasonka *já* [196]; Mandinka *jàa* [196]; Koranko *gbála* [192]; Lele *kpála* [192]; Mogofin *bála* [192]; Kakabe *gbála* [192]; Kono *gbáa* [192]; Vai *kpá'á* [192]; Soso *xara* [192]; Jalonke *qárá* [192]; Jogo *gwă* [192]; Jeri *gbàà* [192]; Numu *gùá* [192]; Mende *mbé* [190]; Loko *mbé(ŋ)* [190]; Bandi *mbè* [190]; Looma *fɔ́* [191]; Kpelle-L *kpála* [192], *kpóŋ* [195]; Kpelle-G *kpala* [192]; Bokobaru *kòrí* [187]; Boko *gɪ̀ɪ̄* [192], *gà* [193]; Busa *kòri* [187]; Lebir *gèr* [192]; San *gere* [192]; Kyenga *ɣutu fa* "dry up' [189]; Shanga *dègeí* 'dry up' [188].

ear: Dan-G *tő* [202]; Dan-B *tó* [202]; Dan-K *tő* [202]; Tura *tőlő* [202]; Mano *tóó* [202]; Guro *tɰ̄nɛ̱̄* [202]; Yaure *tɔ̃́rɛ̱́* [202]; Gban *tő* [202]; Mwan *trɰ́* [202]; Wan *péŋ̀* [203]; Beng *tróŋ́* [202]; Kpeen *tóó* [202]; Kpan *too* [202]; Dzuun *tóró* [202]; Duun *too* [202]; Seenku *tòo* [202]; Banka *tola* [202]; Jo *tɰ́ɰ́* [202]; Bobo *túrú* [202]; Bozo-J *twɔɔ* [202]; Bozo-K *tálá* [202]; Bozo-T *tɛlɛ* [202]; Soninke *tór$^{u}/_{o}$* [202]; Mau *tóó* [202]; Jula-K *tóro* [202]; Dafing *tòo* [202]; Bamana *tólo* [202]; Maninka *tólo* [202]; Xasonka *túlu* [202]; Mandinka *túlu* [202]; Koranko *tólo* [202]; Lele *tólɔ* [202]; Mogofin *tólo* [202]; Kakabe *tólo* [202]; Kono *tó'ó* [202]; Vai *tó'ò* [202]; Soso *túlí* [202]; Jalonke *túlí* [202]; Jogo *tólò* [202]; Jeri *túlu*, *tíli* [202]; Numu *tólò* [202]; Mende *ngólí* [201]; Loko *ngóú* [201]; Bandi *ngòlíi* [201]; Looma *gúí(g)*, *gúí* [201]; Kpelle-L *wóli* [201]; Kpelle-G *wəli* [201]; Bokobaru *swą́* [200]; Boko *swą́* [200], *góló* [201]; Busa *są́* [200]; Lebir *tŏr* [202]; San *tóó* [202]; Kyenga *tɰnɔ* [202]; Shanga *toola* [202].

earth: Dan-G *sɛ̋*, *sɛ̋ɛ̋* [206]; Dan-B *sé* [206]; Dan-K *sé* [206]; Tura *séé* [206]; Mano *tɰ́ą́* [205], *sélé* [206]; Guro *télé* [205]; Yaure *trè* [205]; Gban *tőá* [205]; Mwan *tré* [205]; Wan *trɔ̄ɔ́* [205]; Beng *bā* [207]; Kpeen *dùmɔ́ŋ* [209]; Kpan *zwɰ̈ɰ̈ɰ̈xɔ* [209]; Dzuun *ʤù* [209]; Duun *žokuma* [209]; Seenku *bű* [211]; Banka *jua*, *jogo'omą* [209]; Jo *fwɰ́nɪ̀ŋ* [214]; Bobo *lɔ́* [209]; Bozo-J *twɔɔ* [205], *duba* (?) [209]; Bozo-K *nɔŋɔ* [213]; Bozo-T *nɔ* [213]; Soninke *ɲɪ̀ɪŋé*, *ŋɪ̀ɪŋé* [212]; Mau *lùù* [209]; Jula-K *dùgú* [209]; Dafing *dú* [209]; Bamana *dùgú* [209], *bàngú*, *bànkú* [211]; Maninka *dŭu* [209], *bànkú*, *bànkó* [211]; Xasonka *dùgu* [209], *bànxu* [211]; Mandinka *dùu* [209], *bànku* [211]; Koranko *dùgu*, *dùu* [209]; Lele *dùu-kólo* [209]; Mogofin *dùgu-kólo* [209]; Kakabe *dùgu* [209]; Kono *dùu* [209]; Vai *dǔ-mà* [209]; Soso *bóxì* [211]; Jalonke *bóqì* [211]; Jogo *dògó* [209]; Jeri *dùgú* [209]; Numu *dògò* [209]; Mende *ndɔ̆-lɔ̀* [209], *pólɔ̀* [210]; Loko *pólɔ̀* [210]; Bandi *ndɔ̀wɔ̀-lɔ́* [209], *pɔ̀lɔ́* [210]; Looma *zɔi*, *zuu* [209], *pɔlɔ* [210]; Kpelle-L *lɔ̄ɪ̄* [209], *pórɔ̀* [210]; Kpelle-G *lɔi* [209], *pɔlɔ* [210]; Bokobaru *tɔ̀ɔ̀té* [205]; Boko *zɰ́lé* [204], *tɔɔ̀lé* [205]; Busa *zɰ́té* [204]; Lebir *táá*, *tárá`* [205]; San *tán* [205]; Kyenga *ɣɰ̱akɛ̱* [208]; Shanga *tɛɛ* [205].

eat: Dan-G *bɔ̋* [215]; Dan-B *bɔ́* [215]; Dan-K *bɔ̀* [215]; Tura *bɛ̀lɛ̀* [215]; Mano *bɛ̀lɛ̀* [215]; Guro *bīlī* [215]; Yaure *blì* [215]; Gban *bɛ̀* [215]; Mwan *blē* [215]; Wan *lɔ̄* [216]; Beng *blē* [215]; Kpeen *ɲù-ma* [220]; Kpan *ɲmaa-ma* [220]; Dzuun *ɲɔ́n* [220]; Duun *ɲɰ* [220]; Seenku *nò* [220]; Banka *ɲuo* [220]; Jo *nú* [220]; Bobo *zōn* [216]; Bozo-J *jɛ* [218]; Bozo-K *ja* [218]; Bozo-T *jyɛ* [218]; Soninke *yígá* [218]; Mau *lɔ́ɔ́ŋ* [216]; Jula-K *dómú* [216]; Dafing *dɰ̀* [216]; Bamana *dúmu* [216]; Maninka *dómɰ̱*, *dámɰ̱*, *dáwɰ̱* [216]; Xasonka *dómo* [216]; Mandinka *dómo* [216]; Koranko *dɔ́n* [216]; Lele *dɔ́ɔ́n* [216]; Mogofin *dɔ́mɔ* [216]; Kakabe *dàmu* [216]; Kono *dáun*, *dɔ́n* [216]; Vai *lɔ́ŋ* [216]; Soso *dón* [216]; Jalonke *dóń* [216]; Jogo *dŏ(n)* [216]; Jeri *dóŋ* [216], *kúŋ* [219]; Numu *dóŋ* [216], *kóŋ* [219]; Mende *mé* [183]; Loko *mɛ* [183]; Bandi *mè* [183]; Looma *mi*, *mɛ* [183]; Kpelle-L *mɪ̄ɪ̄* [183]; Kpelle-G *mi*, *me* [183]; Bokobaru *ble* [215]; Boko *blé* [215]; Busa *ble* [215]; Lebir *bì* [215]; San *bɪ̄ɪ̄* ('eat a soft thing') [215], *sɰ* / *sɔɛ̱* [216]; Kyenga *bi* [215]; Shanga *byee* [215].

egg: Dan-G *yą̰ą̰* [221]; Dan-B *yą̂*, *yą̰ą̂* [221]; Dan-K *yą̀* [221]; Tura *yą̀ą̀* [221]; Mano *yą̀ą̀* [221]; Guro *yɛ̱̄nɛ̱̄* [221]; Yaure *yɛ̱́rɛ̱́* (AMS) [221]; Gban *yą̀* [221]; Mwan *yrɛ̱̄* [221]; Wan *ɰ̄ŋ* [221]; Beng *fōŋ̄* [222]; Kpeen

dùmú [226]; Kpan *dų̣i* [226]; Dzuun *dʉ̀ùn* [226]; Duun *dų̣ụ* [226]; Seenku *kyɛ̄* [221]; Banka *juna* [226]; Jo *ɲɔ̀ɔ̀* [221]; Bobo *wéré* [221]; Bozo-J *byɛ* [225]; Bozo-K *fàlá* [223]; Bozo-T *pala* [223]; Soninke *yelli*/$_e$ [221], *xabaN* / *xábáané* [224]; Mau *kíĩ́* [221]; Jula-K *kírí* [221]; Dafing *cìi* [221]; Bamana *fán* [222]; Maninka *kíli* [221]; Xasonka *kíli* [221]; Mandinka *kíli* [221]; Koranko *kíli* [221]; Lele *káli* [221]; Mogofin *kéle* [221]; Kakabe *kíli* [221]; Kono *cíi* [221]; Vai *kéĩ́* [221]; Soso *xɛlɛ* [221]; Jalonke *qèlé* [221]; Jogo *yélé* [221]; Jeri *yèli* [221]; Numu *lígé*, *lígén* [221]; Mende *ngálú* [221]; Loko *ngáú* [221]; Bandi *ngàlù* [221]; Looma *káɟ́*, *káí*, *ɣai*, *ŋɛ* [221]; Kpelle-L *ɣáloŋ* [221]; Kpelle-G *ɲaniŋ* [221]; Bokobaru *né-gbèrè*, *né-gbèè* [221]; Boko *gbē* [221]; Busa *né-gbi̱nì* [221]; Lebir *gyìr* |*gìrì*| [221]; San *gìi* [221]; Kyenga *gbi* [221]; Shanga *gye* [221].

eye: Dan-G *yą̄* [229]; Dan-B *yą́* [229]; Dan-K *yą́* [229]; Tura *yą̄* [229]; Mano *yɪ̰̄ɛ́* [229]; Guro *yìé*, *yʊ̄é* [229]; Yaure *yùé* [229]; Gban *wą̄* [229]; Mwan *yrè* [229]; Wan *lé* [230]; Beng *yɔ̄-wlé* [229]; Kpeen *jáàn* [229]; Kpan *jaa-zi̱* [229]; Dzuun *jáá* [229]; Duun *ja'a-di* [229]; Seenku *dyűnĩ́* [229]; Banka *ja-dina* [229]; Jo *ɲà-néí* [229]; Bobo *ɲónɔ̄* [229]; Bozo-J *ɲo* [229]; Bozo-K *ɲáŋá* [229]; Bozo-T *ɲa* [229]; Soninke *yáa-x*^{a}/$_e$ [229]; Mau *ɲɛ́* [229]; Jula-K *ɲá*, *ɲé* [229]; Dafing *ɲà* [229]; Bamana *ɲé* [229]; Maninka *ɲá* [229]; Xasonka *ɲáa* [229]; Mandinka *ɲáa* [229]; Koranko *yá* [229]; Lele *yáa* / *jáa* [229]; Mogofin *ɲáa* [229]; Kakabe *ɲáa* [229]; Kono *yá* / *já* [229]; Vai *já* [229]; Soso *yáá* [229]; Jalonke *jáá* [229]; Jogo *ɲáa* [229]; Jeri *ɲá* [229]; Numu *ŋáá-dé* [229]; Mende *ngá* [229]; Loko *ngà-ú* [229]; Bandi *ngàa-ḫù* [229]; Looma *gaa-zu* [229]; Kpelle-L *ŋé-í* [229]; Kpelle-G *ɲɛ* [229]; Bokobaru *wéé* [227]; Boko *wé* [227]; Busa *wé* [227]; Lebir *mĭm* |*mìní*|, *míyāa* [228]; San *yíĩ́* [229]; Kyenga *wélé* [227]; Shanga *wíĩ́yé* [227].

fat: Dan-G *yǭ* [232]; Dan-B *yǫ́* [232]; Dan-K *yǭ* [232]; Tura *yǭǭ* [232]; Mano *yǫ́nǫ́* [232]; Guro *yǫ́nǫ́* [232]; Yaure *yrǫ́* [232]; Gban *wʉ̄* [232]; Mwan *yrǫ̀* [232]; Wan *yɛ̀ŋ́* [232]; Beng *yrǫ́* [232]; Kpan *ɲi̱i̱* [232]; Jo *kéŋ* [234]; Bobo *ɲī* [232]; Bozo-J *cɛɛ* [234]; Bozo-K *cé* [234]; Bozo-T *tyɛ* (?) [234]; Soninke *tée* (?) [234]; Mau *céŋ́* [234]; Jula-K *cén* [234]; Dafing *tùrù*, *tùu* [235]; Bamana *kɛ́*, *ké* [234]; Maninka *kɛ́*, *cɛ́* [234], *túlu* [235]; Xasonka *kéŋ* [234]; Mandinka *kéŋ*, *céŋ* [234]; Koranko *kɛ́* [234], *túlu* [235]; Lele *kɛ́* [234]; Mogofin *kɛ́* [234]; Kakabe *kɛ̀n-ɛ* [234]; Kono *túu* [235]; Vai *túʼú* [235]; Soso *ture* [235]; Jalonke *túré* [235]; Jogo *náá* [233], *cén* [234]; Numu *ná* [233], *kílé* [235]; Mende *ngúlɔ́* [232]; Loko *ngúɔ́* [232]; Bandi *ngúlɔ́* [232]; Looma *kpɔlɔ* [232]; Kpelle-L *wúlɔ́* [232]; Kpelle-G *ulo* [232]; Bokobaru *nósí* [231]; Boko *nísí* [231]; Busa *nísí* [231]; Lebir *ɲɔ̀ɔ́* [232]; San *ɲɔɔ* [232]; Kyenga *yǫnɔ* [232]; Shanga *nǫ́ɔ́* [232].

feather: Dan-G *kāã̀* [328]; Dan-B *kāâ* [328]; Dan-K *kàà* [328]; Tura *kúà* [328]; Guro *cɛ̄ɛ̄* [328]; Yaure *jɛ̃́*, *cɛ̃́* [328]; Gban *mą̈* [237]; Mwan *cíɛ̄* [328]; Wan *ką̄ŋ̄* [328]; Beng *céŋ́* [328]; Kpeen *súlù* [243]; Kpan *sui* [243]; Dzuun *súú* [243]; Duun *suu* [243]; Seenku *tān* [242]; Banka *šulą* [243]; Jo *kąą́* [328]; Bobo *dɛ̄gɛ̄*, *dɛ̄gɛ̄* [238]; Bozo-J *tíĩn* [239]; Bozo-K *túŋɔ̀* [239]; Bozo-T *tiin* [239]; Soninke *yìn-ti*/$_e$ [239]; Mau *yóó* [241]; Jula-K *šé*, *syé* [239]; Dafing *tì* [239]; Bamana *sí* [239], *jólo* [241]; Maninka *sí* [239], *jólo* [241]; Xasonka *tí* [239]; Mandinka *tíi* [239]; Koranko *kòndɛ-tigi* [239]; Lele *yònbɛ* [240]; Mogofin *kɔ̀ndɛ-téi* [239]; Kakabe *kɔ̀nde tí* [239]; Kono *yònbo* [240]; Vai *kùn-díì* [239]; Soso *xabɛ* [328]; Jalonke *qàbé* (?) [328]; Jeri *tɟ́*, *cɟ́* [239]; Numu *tɟ́n* [239]; Loko *deɣa* [238]; Bandi *ndeɣa* (Koelle) [238]; Looma *déɣá*, *dɛgɛ* [238]; Kpelle-L *léɣa* [238]; Kpelle-G *lɛɣa* [238]; Bokobaru *ką́* [328]; Boko *ką́* [328]; Busa *ką́* [328]; Lebir *kà'* [328]; San *ka* [328]; Kyenga *kąką́* [328]; Shanga *kaka* [328].

fire: Dan-G *sĩ́ĩ́* [245], *pɛ̄ŋ̄* [246]; Dan-B *sĩ́ĩ́* [245]; Dan-K *sɛ́* [245]; Tura *sĩ́ɛ̃́* [245], *pàì* [246]; Mano *tíé* [244]; Guro *cé* [244]; Yaure *té* [244]; Gban *sɛ́* [245]; Mwan *té* [244]; Wan *té* [244]; Beng *síé* [245]; Kpeen *sáà*, *sàá* [245]; Kpan *sa* [245]; Dzuun *sà* [245]; Duun *sa* [245]; Seenku *tā* [244]; Banka *sa* [245]; Jo *túú* (?) [248]; Bobo *tógó* [248]; Bozo-J *tau* [248]; Bozo-K *tùbá* [248]; Bozo-T *tuu* [248]; Soninke *yinbi*/$_e$ [247]; Mau *tấ* [244]; Jula-K *tá* [244]; Dafing *tà* [244]; Bamana *tá*, *tá-suma* [244]; Maninka *tá* [244]; Xasonka *tá* [244]; Mandinka *dìnbaa*, *kìmaa* [247]; Koranko *tá* [244]; Lele *táa* [244]; Mogofin *tá* [244]; Kakabe *tá* [244]; Kono *tá* [244]; Vai *tá* [244]; Soso *téé* [244]; Jalonke *téé* [244]; Jogo *tá* [244]; Jeri *tá* [244]; Numu *tá* [244]; Mende *ngɔ̀nbú* [247]; Loko *ngɔ̀mbù* [247]; Bandi *ngɔ̀nbù* [247]; Looma *ŋábú* [247]; Kpelle-L *ŋɔ̄ŋ* [247]; Kpelle-G *woŋ* [247]; Bokobaru *té* [244]; Boko *té* [244]; Busa *té* [244]; Lebir *sé* [245]; San *tɛ* [244]; Kyenga *cé* [244]; Shanga *cé* [244].

fish: Dan-G *yúɤ̃ɤ̃* [250]; Dan-B *yúɤ̃*, *yúɤ́* [250]; Dan-K *pɔ̨́* [249]; Tura *vé* [251]; Mano *kpą̨́ą́* [249]; Guro *pɔ̄* [249]; Yaure *pɔ̀* [249]; Gban *zǫ́* [250]; Mwan *kāā* [249]; Wan *kpɔ́* [249]; Beng *zìnŋ́* [250]; Kpeen *gí* [250]; Kpan *žee* [250]; Dzuun *jí* [250]; Duun *ži* [250]; Seenku *kwéɛ̃̀* (?) [249]; Banka *jidina* [250]; Jo *yéríĩ* [250]; Bobo *zɛ̄* [250]; Bozo-J *yuɔ* [250]; Bozo-K *ɲɔ́ŋɔ́* [250]; Bozo-T *ɲuɔn* [250]; Soninke *ɲéxi*/$_e$ [250]; Mau *yéɛ́*, *yɔ́ɔ̃́* [250]; Jula-K *yígén* [250]; Dafing *yìé* [250]; Bamana *jégɛ* [250]; Maninka *jéɛ* [250]; Xasonka *ɲége* [250]; Mandinka *ɲée*, *yée* [250]; Koranko *yégɛ* [250]; Lele *ɲéɛ* [250]; Mogofin *yégɛ* [250]; Kakabe *yégɛ* [250]; Kono *ɲéé* [250]; Vai *ɲíé* [250]; Soso *yéxé* [250]; Jalonke *jéqé* [250]; Jogo *yégé(n)* [250]; Jeri *yégɛ*, *yéga(n)* [250]; Numu *yígén* [250]; Mende *ɲé* [250]; Loko *níɟ́* [250]; Bandi *ɲè* [250]; Looma *fɛzɛ(g)*, *feza(g)* [253]; Kpelle-L *ɲɛ́ɛ* [250]; Kpelle-G *hɔ̀ŋɔ̀lèè* [252]; Bokobaru *kpɔ̀* [249]; Boko *kpɔ̄* [249]; Busa *kpɔ̀* [249]; Lebir *zǫ̀* [250]; San *zɔ̀* [250]; Kyenga *zǫ̀* [250]; Shanga *zǫ́ɔ́* [250].

fly: Dan-G *wlɤ̀* [267]; Dan-B *lɤ̂* [267]; Dan-K *wlɤ̀* [267]; Tura *walá* “fly up” [267]; Guro *sí* (AMS) [269]; Yaure *sú* [269]; Gban *tlő* [268]; Mwan *sí* [269]; Wan *glùŋ* [267]; Beng *pèlōŋ̄* [260]; Kpan *ʦén* [266], *fuu-ma* [272]; Dzuun *tɛruye*, *šɛ* [266]; Banka *fu* [272]; Jo *mi̱n* [271]; Bozo-J *piri-ti* [260]; Bozo-K *piri-ndi* [260]; Bozo-T *piri-ndi* [260]; Soninke *kanpi* [270]; Mau *ti̱ŋ* [266]; Jula-K *wíri*, *wúri* [267]; Dafing *tu̱* [266]; Bamana *pa̱* [264]; Maninka *gba̱* [264]; Xasonka *bá* (?) [264]; Mandinka *tíi* [266]; Koranko *gba̱* [264]; Lele *la-sɔ̀* [265]; Mogofin *tu̱* [266]; Kono *tíŋ* (? “jump”) [266]; Vai *pḭ́ḭ̀* [260]; Soso *tuban*, *tugan* [262]; Jalonke *tùgáń* [262]; Jogo *fínín* [260]; Jeri *tàŋ* [262]; Numu *yèlɔ̀ kánká* (“stand in the sky”) [261]; Mende *wùwû* [257], *kòwô* [259]; Loko *pɪ̀ré* [260]; Bandi *kòvó* [259]; Looma *puwu(g)*, *powo(g)* [257], *gove* (?) [259]; Kpelle-L *kōôŋ* [259]; Kpelle-G *koŋ* [259]; Bokobaru *vi̱á* [254]; Boko *vùá* [254]; Busa *vi̱nà*, *vùrá* [254]; Kyenga *kpɛtɛ* [256]; Shanga *kwàtɛɛ* [256].

foot: Dan-G *gɛ̄̀* [273]; Dan-B *gɛ̂* [273]; Dan-K *jɛ̄* [273]; Tura *gɛ̀ɛ̀* [273]; Mano *gɑ̀* [273]; Guro *gànè* [273]; Yaure *cɛ̄̀*, *kɛ̄i̱* [273]; Gban *gɛ̀* [273]; Mwan *gɑ̄ɑ̄* [273]; Wan *cɛ́* [273]; Beng *gɑ̄* [273]; Kpeen *sàndáà* [273]; Kpan *sɑ̨ɑ̨* [273]; Dzuun *sàn* [273]; Duun *sa-nɑ̨'ɑ̨* [273]; Seenku *kyèn* [273]; Banka *sa-na'a* [273]; Jo *kɑ̀ŋ-dà* [273]; Bobo *kànī* [273]; Bozo-J *taba* [275]; Bozo-K *tă* [275]; Bozo-T *tɔ* [275]; Soninke *tàá* [275]; Mau *sèŋ* [273]; Jula-K *sèn* [273]; Dafing *sɛ́* [273]; Bamana *sɛ̌* [273]; Maninka *sɛ̌* [273]; Xasonka *sɪ̀ŋ* [273]; Mandinka *sɪ̀ŋ* [273]; Koranko *kɪ̄i̱* [273]; Lele *cɛ̀* [273]; Mogofin *kɛ̌* [273]; Kakabe *kèn* [273]; Kono *cɛ̀* [273]; Vai *kɛ̌ŋ* [273]; Soso *san* [273]; Jalonke *sàń* [273]; Jogo *kpɔ́* [274]; Jeri *kpɔ́* [274]; Numu *kpɔ́* [274]; Mende *kɔ́wɔ́* [274]; Loko *kɔgɔ* [274]; Bandi *kɔ̀wɔ̀* [274]; Looma *kɔwɔ* [274]; Kpelle-L *kɔ́ɔ* [274]; Kpelle-G *kɔɣɔ* [274]; Bokobaru *gbá* [273]; Boko *gbá* [273]; Busa *gbá* [273]; Lebir *gămm* |*gànɪ̀*| [273]; San *gòɑ̨* [273]; Kyenga *gbé* [273]; Shanga *gi̱ɪ́* [273].

full (**fill**): Dan-G *pā* [276]; Dan-B *pā* [276]; Dan-K *pā* [276]; Tura *pá* [276]; Mano *pā* [276]; Guro *fɑ̄* [276]; Yaure *fà* [276]; Mwan *pá* [276]; Wan *pá* [276]; Beng *pā* [276]; Kpan *tɛɛ-ma* [277]; Dzuun *ʦyén* [277]; Duun *teo-ma* [277]; Seenku *fə̀gà* [276]; Banka *tɛ-ma* [277]; Jo *fáá-mɑ̀ɑ̨̀* [276]; Bobo *pāgā* [276]; Bozo-J *pa* [276]; Bozo-K *fagi* [276]; Bozo-T *pay* [276]; Soninke *fágá* [276]; Mau *fá* [276]; Jula-K *fá* [276]; Dafing *pà* [276]; Bamana *fá* [276]; Maninka *fá* [276]; Xasonka *fá* [276]; Mandinka *fáa* [276]; Koranko *fá* [276]; Lele *fá* [276]; Mogofin *fáa* [276]; Kakabe *fáa* [276]; Kono *fá* [276]; Vai *fá* [276]; Soso *ra-fe* [276]; Jalonke *féé* [276]; Jeri *fi̱ɛ* [276]; Numu *fɛ̨́ɛ̨́ŋ* / *fɛ̨́ɛ̨́nè* [276]; Mende *ndá-vé* [276]; Loko *fé(ŋ)* [276]; Bandi *nda-he* [276]; Looma *fɛ(g)*, *da-fɛ(g)* [276]; Kpelle-L *fɛ́ɛ* [276]; Kpelle-G *hvɛ* [276]; Bokobaru *pá* [276]; Boko *pá* [276]; Busa *pá* [276]; Lebir *pà* [276]; San *pɑ̨* / *pi̱ɛ* [276]; Kyenga *fà* [276]; Shanga *dàkì* [278].

give: Dan-G *gbā* [279], *nū* [280]; Dan-B *gbāā* [279], *nū* [280]; Dan-K *gbà* [279], *nù* [280]; Tura *gbá* [279], *nú* [280]; Mano *gbā* [279], *nɔ̄* [280]; Guro *nɔ́* [280]; Yaure *nɔ̀* [280]; Gban *nɔ̀* [280]; Mwan *nū* / *ná* [280], *pɛ̄* [282]; Wan *kɛ́* [281]; Beng *gbā* [279]; Kpeen *tènà* [283]; Kpan *si̱i̱-ma* [283]; Dzuun *kɔ̀* [281], *sìn* [283]; Duun *ti̱mi̱* [283]; Seenku *kyɛ̄* [281]; Banka *ši̱* [283]; Jo *wɔ̀rì* [286]; Bobo *pērē* [282]; Bozo-J *do*, *dwɑ̨na* [283]; Bozo-K *ku̱* [281], *lɔ* [283]; Bozo-T *ko* [281], *lo̱ŋa* [283]; Soninke *kùú* [281], *kínì* [284]; Mau *sɔ́* [281], *dí* [283]; Jula-K *sɔ́n* [281], *dí* [283]; Dafing *sɔ̨́* [281], *dì* [283]; Bamana *sɔ́* [281], *dí* [283]; Maninka *sɔ́* [281], *dí* [283]; Xasonka *só*, *sóŋ* [281], *dí* [283]; Mandinka *só* [281], *díi* [283]; Koranko *kɔ́* [281], *dí* [283]; Lele *kɔ́* [281], *dí* [283]; Mogofin *dí* [283]; Kakabe *kɔ́* [281], *dí* [283]; Kono *kɔ́* [281], *bè* [285]; Vai *kɔ́* [281], *bee* [285]; Soso *fíí* [282]; Jalonke *fíí* [282]; Jogo *kɔ́* [281]; Jeri *kuɔ* [281]; Numu *kɔ́* [281]; Mende *kɔ́* [281], *fè* [282]; Loko *fé* [282]; Bandi *kɔ(ŋ)* [281], *fe* [282]; Looma *kɔ́* [281], *fe* [282]; Kpelle-L *kɔ́* [281], *fé* [282]; Kpelle-G *kɔŋ*, *kɔ* [281], *hvə* [282]; Bokobaru *kpá* [279]; Boko *kpá* [279]; Busa *kpá* [279]; Lebir *kà* [279]; San *kɔ́* / *koe*, *gɔ* / *goe* [281]; Kyenga *gba* [279]; Shanga *ku̱* [281].

good: Dan-G *dī* [296], *ti̱ɑ̨̀ɑ̨̀dē* [301], *sʌ̀* [306]; Dan-B *dī* [296], *sʌ̂* [306]; Dan-K *ti̱ɑ̨̀ɑ̨̀* [301]; Tura *sɛ̀gḭ́* [306]; Mano *yíē* [295], *sè* [306]; Guro *zìmá* [300]; Yaure *yḭ́* [295]; Mwan *lrè* [292]; Wan *zrɑ̄* [298], *kplɑ̄-kplɑ̄* [299]; Beng *tè* [296], *gēŋ̄* [297]; Kpan *zii* [296], *wo* [305]; Dzuun *ʤí* [296], *wùù* [305]; Duun *wo-ma* [305]; Seenku *ʤə̀* [296], *sùgɔ̀* [306]; Banka *wo* [305]; Jo *dì* [296], *šɔ̀ɔrḭ́ŋ* (?) [303]; Bobo *dīà* [296], *fɔ̃rɔ̄* [304]; Bozo-J *mɛ̨ɛ̨* [287], *dɛ̨* [296]; Bozo-K *mai̱* / *mɑ̨ŋɑ̨* [287], *le* [296]; Bozo-T *main* [287]; Soninke *lḭ́ŋŋé* [296], *sir*^{i}*/*$_{e}$ [303]; Mau *ɲi̱ŋ* [295], *dí* [296], *bɛ́ɛ́*, *bɛ́ɛ́bɛ́ɛ́* [302]; Jula-K *ɲì* [295], *dí* [296], *bérébéré* [302]; Dafing *ɲí* [295]; Bamana *ɲi̱*, *ɲi̱* [295], *dí* [296], *bére*, *bɛ́ɛrɛ* [302]; Maninka *ɲi̱* [295], *dí* [296], *bèdé*, *bèré* [302]; Xasonka *ɲìŋ* [295], *dí* [296], *béte* [302]; Mandinka *ɲìŋ* [295], *dí-yaa* [296], *béte* [302]; Koranko *ɲì* [295], *dí* [296]; Lele *ɲín*, *ɲùma* [295], *dí* [296]; Mogofin *ɲi̱*, *káɲi̱* [295]; Kakabe *ɲúma* [295]; Kono *ɲì* [295], *dí* [296]; Vai *ɲí* [295], *bɛ́’è* [302]; Soso *fan* [294]; Jalonke *fáń* [294]; Jogo *ɲeá(n)* [295]; Jeri *ɲàŋ*, *ɲèaŋ* [295]; Numu *ɲèànè* [295]; Mende *kpékpé* [293], *pàndà* [294], *ɲàndé* [295]; Loko *kpékpé(ŋ)* [293], *ɲàndé(ŋ)* [295]; Bandi *panda* [294]; Looma *pa(g)* [294]; Kpelle-L *lélɛ́ɛ* [292]; Kpelle-G *lɛlɛ* [292]; Bokobaru *maa* [287], *ńa* [288]; Boko *maa* [287], *na* [288]; Busa *mana* [287], *ńa* [288]; Lebir *mííŋŋɒ* [289], *wʊ́sɪ* [290]; San *kɔɑ̨n* [291], *si̱i̱n* [306]; Kyenga *nɔɔ* [288]; Shanga *ǹaá* [288].

green: Dan-G *gblɛ̀ɛ̀yḭ́dē* [315]; Dan-B *gblɛ̀ɛ̀ibḭ̃zʌ̀*, *blúdɛ̃́{yḭ́}zʌ̀*, *bɛ̀ɛ̄dɛ̃́yízʌ̀* [315]; Dan-K *flɛ̀ɛ̃́* [314]; Tura *kpòlò* [318]; Mano *béìlɛ́ɛ́yízɛ* [315]; Guro *tūūlū* [313], *dɔ̀nɔ́nɔ̌* (?) [324]; Mwan *yrèyrè* [312]; Wan *gīnɔ̄ŋ̀*

[311], *yrí-yrí* [312], *kpōnūŋ* [318]; Beng *gbé* [310]; Kpan *vu̱cirama* [323]; Dzuun *vu̱tsirama* [323]; Duun *bu̱fwema* [323]; Banka *vu̱plan̨ama* [323]; Jo *dàràmàŋ* [324]; Bobo *sàrā-zū* ("like juce of the leaves of beans") [326]; Bozo-J *sɔgu kaa* ("grass-fresh") [327]; Bozo-T *sáúxáámú* [327]; Soninke *xalli/e* [320]; Mau *gbèèŋ* ('green fruit') [318]; Jula-K *bín-gédédámán* [323]; Dafing *gwlé* ("unripe") [318], *bi̱i̱cɛ̱ɛ̱mà* [323]; Bamana *gèrén* ("unripe") [318], *bínkɛnɛlama* [323]; Maninka *gbèdén* ("unripe") [318], *bínkɛndɛlama* [323]; Xasonka *kéreŋ* [318], *bínkereŋ* [323]; Mandinka *jànbakere* [319]; Koranko *yànbaku̱-yɛ* ("like leaves") [319]; Lele *yànbalama* [319]; Mogofin *yànbakutannama*, *bùlulama* [319]; Kakabe *kútaŋ-ɛ* [321]; Kono *yanbakua* [319]; Vai *jàmbà-kú'à* [319], *ji'oŋ* [322]; Soso *xinde* ("unripe") [320]; Jalonke *qíńdè* ("unripe") [320]; Jogo *jànkómà* ("fresh leaf") [319]; Numu *gyánkpo̱a̱* ("fresh leaf") [319]; Mende *kpólé* [318]; Looma *kpoe* [318]; Kpelle-L *kpōlē* ("unripe") [318]; Kpelle-G *kpele* ("unripe") [318]; Bokobaru *láʁí* [307], *ɣísí* [308]; Boko *ɣísí* [308]; Busa *láʁí* [307], *ɣísí* [308]; Lebir *vannı mı* [309], *zár mı* [316]; San *burun* [317].

hair: Dan-G *kāà* [328], *wū̱* [329]; Dan-B *kāâ* [328], *wū̱* [329]; Dan-K *kàà* [328], *yą̄ą̄* [330]; Tura *kúà* (AMS) [328], *wo̱-wo̱* [329]; Mano *wī̱í̱*, *{wī̱í̱-}wú* [329]; Guro *cɛ̄ɛ̄* [328], *wī̱*, *wū̱ī̱* [329]; Yaure *jɛ̃́*, *cɛ̃́* [328]; Gban *mlɛ̃́; mą̄* [329]; Mwan *cíɛ̄* [328], *wī̱ / wí̱* [329]; Wan *ką̄ŋ̄* [328]; Beng *céɲ́* [328]; Kpeen *kúŋwànzúlù* [333]; Kpan *ku̱o̱i̱* [333]; Dzuun *kùngwèyn* [333]; Duun *ku̱ŋkwei* [333]; Seenku *kònsùgì̱* [332]; Banka *kwą'a̱-sulu* [333]; Jo *ŋùžíŋ* [332]; Bobo *ŋwòn-sógó* [332]; Bozo-J *tíín* [332]; Bozo-K *túŋò* ('body hair') [332]; Bozo-T *tiin* [332]; Soninke *yìn-tí* [332]; Mau *kù̱nžyé* [332]; Jula-K *syé*, *šé* [332]; Dafing *tì* [332]; Bamana *sí* [332]; Maninka *sí* [332]; Xasonka *tí* [332]; Mandinka *tíi* [332]; Koranko *síi* [332]; Lele *kùn-tii* [332]; Mogofin *kùn-sigi* [332]; Kakabe *kùn-sígi* [332]; Kono *kùndíi* [332]; Vai *kùn-díì* [332]; Soso *xun-sɛxɛ* [332]; Jalonke *qùǹ-séqè* [332]; Jogo *tín* [332]; Jeri *tí̱*, *cí̱* [332]; Numu *tigi* [332]; Mende *ndéwá* ('body hair') [331]; Loko *deɣa* [331]; Bandi *ndeɣa* [331]; Looma *déɣá* [331]; Kpelle-L *léɣa* [331]; Kpelle-G *lɛɣa* [331]; Bokobaru *ką́* [328]; Boko *ką́* [328]; Busa *ką́* [328]; Lebir *kà´* [328]; San *ka* [328]; Kyenga *ką́ką́* [328]; Shanga *sìèkaka* [328].

hand: Dan-G *kɔ̀* [334], *gbè* [339]; Dan-B *kɔ̂* [334], *gbîɾ̂* [339]; Dan-K *kɔ̀* [334], *gbë* [339]; Tura *kɔ̀ɔ̀* [334]; Mano *kɔ̀* [334]; Guro *bɛ̄* [339]; Yaure *pɛ̀* [339]; Gban *kɔ́* [334]; Mwan *kɔ́ɔ́* [334], *gbɛ̄* [339]; Wan *ɔ̄* [334]; Beng *wɔ̄* [334]; Kpeen *sí-táà* [340]; Kpan *si-tą̄ą̄ri̱* [340]; Dzuun *sí-táá* [340]; Duun *si-ra'a* [340]; Seenku *kyè*, *kyiɛ* [340]; Banka *ši-rą'a̱* [340]; Jo *gbé* [339], *je* [340]; Bobo *sōrō* [337]; Bozo-J *sugu* [337]; Bozo-K *kírí* [338]; Bozo-T *suu* [337]; Soninke *kíttı/e* [338]; Mau *bóő* [336]; Jula-K *bóro* [336]; Dafing *bòo* [336]; Bamana *bólo* [336]; Maninka *bólo* [336]; Xasonka *búlu* [336]; Mandinka *búlu* [336]; Koranko *bóló* [336]; Lele *bóló* [336]; Mogofin *bóló* [336]; Kakabe *bóló* [336]; Kono *bó'ó* [336]; Vai *bó'ó* [336]; Soso *yíí* [335]; Jalonke *yíí* [335]; Jogo *bóló* [336]; Jeri *bulu* [336]; Numu *bóló* [336]; Mende *ngé-yà* [335]; Loko *nge-ya* [335]; Bandi *ngea* [335]; Looma *ze* [335]; Kpelle-L *yée* [335]; Kpelle-G *ye* [335]; Bokobaru *ɔ* [334]; Boko *ɔ́* [334]; Busa *ɣɔ* [334]; Lebir *wɔ̀´* [334]; San *gɔn* [334]; Kyenga *ɣɔ* [334]; Shanga *ɣòò* [334].

head: Dan-G *gɔ̀* [342]; Dan-B *gɔ̂* [342]; Dan-K *gɔ̀* [342]; Tura *wú* [342]; Mano *wú-kēlē* [342]; Guro *wūō* [342]; Yaure *wùlò* [342]; Gban *bò* [343]; Mwan *ŋ́gblò*, *ŋgɓlō* [343]; Wan *ɓó-ŋ́glò* [343]; Beng *wlū̱* [342]; Kpeen *kùŋgɔ́* [342]; Kpan *ku̱o̱* [342]; Dzuun *kùn-gɔ* [342]; Duun *ku̱ŋkɔ* [342]; Seenku *kòn* [342]; Banka *kwą'a̱* [342]; Jo *ɲɔ̀nɛ̀ì̱* [342]; Bobo *ŋwòñ* [342]; Bozo-J *ɲɛ* (?) [342]; Bozo-K *šyāhwɔ̄* [345]; Bozo-T *tɔmɔ* [344]; Soninke *yin / yímmé* [342]; Mau *kù̱ŋ* [342]; Jula-K *kùn* [342]; Dafing *kú* [342]; Bamana *kṵ* [342]; Maninka *kṵ* [342]; Xasonka *kùŋ* [342]; Mandinka *kùŋ* [342]; Koranko *kù̱* [342]; Lele *kù̱* [342]; Mogofin *kù̱* [342]; Kakabe *kùn* [342]; Kono *kù̱* [342]; Vai *kŭŋ* [342]; Soso *xŭn* [342]; Jalonke *qùń* [342]; Jogo *wŭ* [342]; Jeri *wù* [342]; Numu *wú* [342]; Mende *ngŭ* [342]; Loko *ngù-kókó* [342]; Bandi *ngŭ(ŋ)* [342]; Looma *ŋu(g)*, *wu̱(g)* [342]; Kpelle-L *ŋūŋ* [342]; Kpelle-G *wuŋ* [342]; Bokobaru *mì* [341]; Boko *mī* [341]; Busa *mì* [341]; Lebir *mìnì* [341]; San *mìi* [341]; Kyenga *mì* [341]; Shanga *míí* [341].

hear: Dan-G *mā* [346]; Dan-B *mā* [346]; Dan-K *mà* [346]; Tura *má* [346]; Mano *mā* [346]; Guro *mą́* [346]; Yaure *mą̀* (ASM) [346]; Gban *mà* (ASM) [346]; Mwan *mā / má* [346]; Wan *mɔ̀* [346]; Beng *mą̄* [346]; Kpan *ŋmɛ̱ɛ̱-ma* [346]; Dzuun *myèn* [346]; Duun *mi̱ɛ̱nɔ* [346]; Seenku *mèɛ / mí́ɛ́* [346]; Banka *miɛ* [346]; Jo *dá-mɛ̱̀* [346]; Bobo *mɔ̈* [346]; Bozo-J *myɛɛ* [346]; Bozo-K *bogi* (?) [346]; Bozo-T *bugɛ* (?) [346]; Soninke *mùgú* [346]; Mau *myɛ́ŋ* [346]; Jula-K *mén*, *myén* [346]; Dafing *mwì̱i̱* [346]; Bamana *mɛ́*, *mé* [346]; Maninka *mɛ́* [346]; Xasonka *mé* [346]; Mandinka *mòyi* [346]; Koranko *lá mɛ́*, *lá mɛ́* [346]; Lele *lá-mín* [346]; Mogofin *mɔɛ* [346]; Kakabe *mén* [346]; Kono *mì̱* [346]; Vai *láŋ* [347]; Soso *mèɛ́* [346]; Jalonke *mèɛ́* [346]; Jogo *mén* [346]; Jeri *méŋ*, *mé* [346]; Numu *méŋ* [346]; Mende *mèní* [346]; Loko *mě(ŋ)* [346]; Bandi *mènì* [346]; Looma *ménì(g)* [346]; Kpelle-L *mēnī* [346]; Kpelle-G *maŋ* [346]; Bokobaru *ma* [346]; Boko *ma* [346]; Busa *ma* [346]; Lebir *mà* [346]; San *mą́*, *mɛ́ɛ* [346]; Kyenga *ma* [346]; Shanga *màà* [346].

heart: Dan-G *zūű*, *zò* [349]; Dan-B *zùɾ̄* [349]; Dan-K *zūű* [349]; Tura *zvvò* [349]; Mano *zò* [349]; Guro *zùlù* [349]; Gban *gbí* [351], *klɔ̀* [352]; Mwan *sōŋ* [348], *zrū* [349]; Wan *zɔ̨̀ŋ* [349], *tólì* [350]; Beng *blònínɲ́* (?) [359]; Kpeen *sɔ̨̀ŋ* [348]; Kpan *sɔ* [348]; Dzuun *sòn* [348]; Duun *sono* [348]; Seenku *sɔ̀* [348]; Banka *sona* [348]; Jo *sòŋ* [348]; Bobo *wōrō* [357], *dógó* [358]; Bozo-J *bugulio̱* [359]; Bozo-K *bori* [359]; Bozo-T *boojo̱* [359]; So-

ninke *sondoN / sondomme* [348]; Mau *sɔ̀ŋ* [348]; Jula-K *sɔ̀n* [348]; Dafing *sɔ́* [348]; Bamana *sɔ̌* [348]; Maninka *sɔ̌*, *sɔ́ndɔmɛ* [348]; Xasonka *sɔ̌*, *sòndomme* [348]; Mandinka *sòndome* [348]; Koranko *sɔ̀*, *sɔ̀* [348], *yì̀si* [354]; Lele *nɨ́i* [356]; Mogofin *dùsê* [354]; Kakabe *jùsu* [354]; Kono *sònsòn* [348], *fàa* [355]; Vai *fà'á* [355]; Soso *sondon* [348]; Jalonke *sòndóǹ* [348]; Jogo *sɔ̀(n)* [348]; Jeri *gbɔ́gɔn* (?) [359]; Numu *sɔ́n* [348]; Mende *ndɨ́ɨ́* [353]; Loko *ndɨ́ɨ́* [353]; Bandi *ndɨ̀ɨ́* [353]; Looma *zii* [353]; Kpelle-L *lɨ́i* [353]; Kpelle-G *li* [353]; Bokobaru *swɛ̰̀* [348]; Boko *sɔ̰̄* [348]; Busa *swɛ̰̀* [348]; Lebir *sètɔ*, *sétò* [348]; San *koron* [352]; Kyenga *zù̱* [349]; Shanga *zu̱ŋú̱* [349].

horn: Dan-G *sɔ̰̀̀* [361]; Dan-B *sɔ̰̂* [361]; Dan-K *sɔ̰̄* [361]; Tura *sèlè* [361]; Mano *ɓé* [360]; Guro *ɓéí ~ ɓélí* [360]; Yaure *ɓéí* (AMS) [360]; Gban *bɨ́* [360]; Mwan *mlɛ̀* [360]; Wan *mlɛ̰̄ŋ* [360]; Beng *béɲ́* [360]; Kpeen *kú̱ɥ́* [368]; Kpan *bɨ̰̱* [360]; Dzuun *bín* [360]; Duun *bi* [360]; Seenku *bì(n)* [360]; Banka *viɑ̨* [360]; Jo *péŋ* [360]; Bobo *bɛ̰̄* [360]; Bozo-J *buuon* [360]; Bozo-K *hɔ́mɔ́* [368]; Bozo-T *bolon* (?) [360]; Soninke *beN / bénné* [360]; Mau *géḛ́* [367]; Jula-K *gbàn* [365]; Bamana *bɨ́ɲɛ*, *byɛ́* [360]; *gwére* [367]; Maninka *bɨ́ɲɛ* [360]; *kére* [367]; Xasonka *bɨ́ɲa* [360]; Mandinka *bɨ́na* [360]; Koranko *kɨ́ri*, *kére* [367]; Lele *bɨ́ɨna* [360]; Mogofin *bɨ́na* [360]; Kakabe *bɨ́ɲa* [360]; Kono *béna* [360]; Vai *ɓɨ́ná* [360]; Soso *feri* [366]; Jalonke *féérí* [366]; Jogo *gɔ̰̌(n)* [365]; Jeri *gbòŋ*, *gbɔ̀ŋ* [365]; Numu *gɔ̀n* [365]; Mende *ndówó* [363]; Loko *ndógó* [363]; Looma *mɛna* [360]; Kpelle-L *mɨ̰̱lā* [360]; Kpelle-G *minɛ̨* [360]; Bokobaru *bɛ̰̱ɛ̰̱* [360], *kobá* [362]; Boko *bɛ́ná* [360], *kɔ́bá* [362]; Busa *bɛ́né* [360]; Lebir *mìní* [360]; San *bɛn* [360]; Kyenga *kaho* (< Hausa *ƙàhɔ̄*, < *ƙàfɔ̄*) [–4]; Shanga *bɛ̰̀è* [360].

I: Dan-G *ma* [369], *a* [370], *n* [372]; Dan-B *ma* [369], *a* [370], *n* [372]; Dan-K *ma* [369], *n* [372]; Tura *ma* [369], *ɑ̨* [370], *n* [372]; Mano *ma* [369], *n* [372]; Guro *ma* [369], *ɑ̨* [370]; Yaure *ma* [369], *ɑ̨* [370]; Gban *mi* [369], *i̱* [372]; Mwan *mi* [369], *ŋ* [372]; Wan *mí-nà* [369], *na* [371], *n* [372]; Beng *ma* [369], *ŋ* [372]; Kpeen *ma* [369], *n* [372]; Kpan *mu̱* [369]; Dzuun *mun* [369]; Duun *ma* [369]; Banka *mu* [369]; Jo *mɑ̃́* [369], *ń* [372]; Bobo *ma*, *mɛ* [369], *ne* [372]; Bozo-J *n* [372]; Bozo-K *ń* [372]; Bozo-T *n* [372]; Soninke *ń* [372]; Mau *né* [372]; Jula-K *ń* [372]; Dafing *ǹ* [372]; Bamana *ń* [372]; Maninka *ń* [372]; Xasonka *ń* [372]; Mandinka *ń* [372]; Koranko *ń* [372]; Lele *ń* [372]; Mogofin *ń* [372]; Kakabe *ń* [372]; Kono *ń* [372]; Vai *ń* [372]; Soso *ń* [372]; Jalonke *ń* [372]; Jogo *ń* [372]; Jeri *nà* [372]; Numu *ǹ* [372]; Mende *ngá*, *ɲá* [371]; Loko *ngi* [371]; Bandi *ngɨ́* [371], *ŋ́* [372]; Looma *gè* [371], *(ˊg)* [372]; Kpelle-L *ɲáŋ* [371], *n* [372]; Kpelle-G *ɲáŋ* [371], *n* [372]; Bokobaru *ma* [369]; Boko *ma* [369]; Busa *ma* [369]; Lebir *ma* [369]; San *ma* [369]; Kyenga *ma* [369]; Shanga *ma* [369].

kill: Dan-G *zɑ̄* [373]; Dan-B *zɑ̄* [373]; Dan-K *zè* [373]; Tura *zé* [373]; Mano *zɛ̄* [373]; Guro *jɛ̄* [373]; Yaure *tɛ̀* [373]; Gban *zè* [373]; Mwan *dɛ̄* [373]; Wan *té* [373]; Beng *dɛ̄* [373]; Kpeen *bùó* [377]; Kpan *boo-ma* [377]; Dzuun *vú* [377]; Duun *vo* [377]; Seenku *bwò / bwō / bwönë* [377]; Banka *bo* [377]; Jo *kɨ́lɛ̨́*, *klà* [376]; Bobo *yè* [373]; Bozo-J *waa* [375]; Bozo-K *waɣa* [375]; Bozo-T *gwan* [375]; Soninke *kàrɨ́* [376]; Mau *fàà* [374]; Jula-K *fàgá* [374]; Dafing *páá* [374]; Bamana *fàgá*, *fàá* [374]; Maninka *fàá* [374]; Xasonka *fàxa* [374]; Mandinka *fàa* [374]; Koranko *fàga*, *fàa* [374]; Lele *fàa* [374]; Mogofin *fàgá* [374]; Kakabe *fàgá* [374]; Kono *fàa*, *fà* [374]; Vai *fàá* [374]; Soso *fàxá* [374]; Jalonke *fɔ̀qɔ́* [374]; Jogo *kpɑ́* [375]; Jeri *kpɑ́* [375]; Numu *kpɑ́* [375]; Mende *pàá* [374]; Loko *pàá* [374]; Bandi *pàa* [374]; Looma *paa* [374]; Kpelle-L *pāā* [374]; Kpelle-G *pa* [374]; Bokobaru *dɛ* [373]; Boko *dɛ́* [373]; Busa *dɛ* [373]; Lebir *zɛ́* [373]; San *dɛ / dii* [373]; Kyenga *dɛ* [373]; Shanga *de* [373].

knee: Dan-G *kpɨ̄ɔ̰̀ɔ̰̀* [378]; Dan-B *kpɔ̄gɔ̄* [378]; Dan-K *kpɨ̄ɔ̰̀gɔ̰̀* [378]; Tura *kpőŋ́* [378]; Mano *kpūò* [378]; Guro *pó* [378]; Yaure *pő* [378]; Gban *kpɔ́* [378]; Mwan *kpɔ́* [378]; Wan *kpóŋ́-gbōlí* [378]; Beng *kpó* [378]; Kpeen *kùmú* [378]; Kpan *ku̱ɨ̱* [381]; Dzuun *kúnún* [381]; Duun *kumu* [378]; Seenku *tyìmì* [378]; Banka *ku̱na* [381]; Jo *kànkwòò* [378]; Bobo *fūngūnù* [382]; Bozo-J *kɔ̀bɔ̀* [378]; Bozo-K *húŋ́* [378]; Bozo-T *xumun* [378]; Soninke *xúrúng$^{i}/_{o}$* [381]; Mau *kṵ̀mɛ́ɛ́ŋ* [378]; Jula-K *kúnbiri* [378]; Dafing *kṵ̀ŋwɨ̀i* [378]; Bamana *kúnbere*, *-ku̱*, *-kuru* [378], *kúnbere*, *-ku̱*, *-kuru* [381]; Maninka *kúnberen*, *-kudu* [378], *kúnberen*, *-kudu* [381]; Xasonka *xúnbaliŋ-kuŋ* [378]; Mandinka *kúmbaliŋ* [378]; Koranko *kúnbɛlɛ̨* [378]; Lele *kúnbili* [378]; Mogofin *kúnbɛlɛ̨* [378]; Kakabe *kùngbɛlén* [378]; Kono *kúnbai̱* [378]; Vai *kúmbé'é* [378]; Soso *xinbi* [378]; Jalonke *qíńbí* [378]; Jogo *gbóó* [378]; Jeri *gbó-wù* [378]; Numu *gbó* [378]; Mende *ngónbí* [378]; Loko *ngónbí* [378]; Bandi *ngùnbù* [378]; Looma *ɲiɓi* [378]; Kpelle-L *ŋúme* [378]; Kpelle-G *wungbe* [378]; Bokobaru *kosoó* [379]; Boko *koso* [379]; Busa *koso* [379]; Lebir *kùŋkóo*, *kúŋkoo*, *kúŋkoom* [378]; San *musi* [380]; Kyenga *ku̱su̱* [379]; Shanga *kṵ̀sṵ̀* [379].

know: Dan-G *dɔ̄* [383]; Dan-B *dɔ̄* [383]; Dan-K *dɔ̀* [383]; Tura *dɔ́* [383]; Mano *dɔ̄* [383]; Guro *dɔ̀ɔ̀* [383]; Yaure *tɔ̀* [383]; Gban *dɔ̀* [383]; Mwan *dɔ̄* [383]; Wan *tɔ́* [383]; Beng *dɔ̰̄* [383]; Kpan *tɔɔ-ma* [383]; Dzuun *tɔ̀* [383]; Duun *tɔ* [383]; Seenku *tò / tyò* [383]; Banka *tɔ* [383]; Jo *tɔ́* [383]; Bobo *tɔ̀* [383]; Bozo-J *two* [383]; Bozo-K *to* [383]; Bozo-T *toy* [383]; Soninke *tùú* [383]; Mau *lóŋ* [383]; Jula-K *lɔ́* [383]; Dafing *lɔ̰́* [383]; Bamana *dɔ́* [383]; Maninka *lɔ́* [383]; Xasonka *lóŋ* [383]; Mandinka *lóŋ* [383]; Koranko *lɔ́* [383]; Lele *sɔ́n*, *lɔ́n* [383]; Mogofin *lɔ́* [383]; Kakabe *lɔ́n* [383]; Kono *sɔ́* [383]; Vai *sɔ́* [383]; Soso *kolon* [384]; Jalonke *kólóŋ* [384]; Jogo *sɔ́* [383]; Jeri *sɔ́* [383]; Numu *sɔ̀* [383]; Mende *kɔ́ɔ́* [384]; Loko *kɔ́ɔ́(ŋ)* [384]; Bandi *kɔ̀lɔ́* [384]; Looma *kɔi̱(g)*, *kwɛ̨(g)* [384]; Kpelle-L *kɔ́lɔŋ* [384]; Kpelle-G *kɔlɔŋ* [384]; Bokobaru *dɔ̨* [383]; Boko *dɔ́* [383]; Busa *dɔ̨* [383]; Lebir *dɔ́* [383]; San *dɔ̨ / doɛ̨* [383]; Kyenga *dɔ̨* [383]; Shanga *dɔ̨* [383].

leaf: Dan-G *dɛ̃̄* [385]; Dan-B *dɛ̃̄* [385]; Dan-K *lɛ̃̄* [385]; Tura *dɛ̃̄-kwɛ̃̄* [385]; Mano *lɛ́ɛ́* [385]; Guro *láá* [385]; Yaure *lá* [385]; Gban *lā* [385]; Mwan *làà* [385]; Wan *lāŋ́* [385]; Beng *láná* [385]; Kpeen *gɔ́ɔ̀-tírà*, *pl. gɔ́ɔ̀-tírà-rì* [390]; Kpan *gɔɔ-ciraa* [390]; Dzuun *ʦírá* [390]; Duun *cira* [390]; Seenku *tìrì* [390]; Banka *fla* [390]; Jo *dá* [385]; Bobo *dā* [385]; Bozo-J *duo* [386]; Bozo-K *lálá* [385]; Bozo-T *lɛlɛ* [385]; Soninke *dari* / *dáré* [385]; Mau *búú* [389], *fyáā* [390]; Jula-K *fílá-búrú*, *fúlá-búrú* [390]; Dafing *plà* [390]; Bamana *búlu* [389], *fúra* [390]; Maninka *búlu* [389], *fída*, *fíra* [390]; Xasonka *fíta* [390]; Mandinka *jànba* [388], *fíta* [390]; Koranko *yànba* [388]; Lele *yànba*, *yènba* [388]; Mogofin *yànba* [388]; Kakabe *fíta* [390]; Kono *yànba* [388]; Vai *jànbá* [388]; Soso *búra-xɛ*, *búrɛ-xɛ* [389]; Jalonke *búrú-qé* [389]; Jogo *jă(n)* [388]; Jeri *jàŋ* [388]; Numu *gyán* [388]; Mende *ndáwá* [385]; Loko *ndága(ŋ)* [385]; Bandi *ndàɣá* [385]; Looma *daa(g)* [385]; Kpelle-L *láa* [385]; Kpelle-G *la* [385]; Bokobaru *lá* [385]; Boko *lá* [385]; Busa *lá* [385]; Lebir *lèé* [385]; San *luu* [386]; Kyenga *lálá* [385]; Shanga *daàkò* [387].

lie: Dan-G *wɔ̀* [393]; Dan-B *wɔ̄* [393]; Dan-K *wɔ̀* [393]; Tura *kpáá* [396]; Mano *wɔ̄* [393]; Guro *yīá* [397]; Yaure *yi̱rą̀* [397]; Gban *wà-tɻ́* (AMS) [392]; Mwan *yīlà* [397]; Wan *gòdì* [395]; Beng *bèdă* [394]; Kpeen *ɲé* [397]; Kpan *ŋɛɛ-ma* [397]; Dzuun *ɲén* [397]; Duun *ɲa* [397]; Seenku *síŋà* [399]; Banka *ɲa* [397]; Jo *bìlɪ̀* [398]; Bobo *dɛ̄* (?) [391]; Bozo-J *saa* [391]; Bozo-K *saɣa* [391]; Bozo-T *saa* [391]; Soninke *sáxú* [391]; Mau *lá* [391]; Jula-K *lá* [391]; Dafing *là* [391]; Bamana *dá* [391]; Maninka *lá* [391]; Xasonka *lá* [391]; Mandinka *láa* [391]; Koranko *sá* [391]; Lele *sá* [391]; Mogofin *sá* [391]; Kakabe *láa* [391]; Kono *sá* [391]; Vai *sá* [391]; Soso *sá* [391]; Jalonke *sáa* [391]; Jogo *sá* [391]; Jeri *sá* [391]; Numu *sà* [391]; Mende *ndá* [391]; Loko *ndá* [391]; Bandi *ndà* [391]; Looma *da* [391]; Kpelle-L *láá* [391]; Kpelle-G *laa* [391]; Bokobaru *da-é* [391]; Boko *da-é* [391], *wúlé* [392]; Busa *wúté* [392]; Lebir *wòtá* [392]; San *waa* (?) [392]; Shanga *intɛɛ* [393].

liver: Dan-G *ɓlűű* [410]; Dan-B *ɓlú* [410]; Dan-K *ɓűű* [410]; Tura *ɓűlű* [410]; Mano *ɓūlū* [410]; Guro *ɓílí* [410]; Yaure *fʊ̀ʊ́* (?) [410]; Gban *gbí̱* [411]; Mwan *zrū* [412]; Wan *tólì* [413]; Beng *blɔ̄ŋ̄* [410]; Kpeen *bɻ́* [405]; Kpan *bu̱i̱* [410]; Dzuun *vúnún* [410]; Duun *bu̱* [410]; Seenku *bɔ̀rɔ̀n* [410]; Banka *vuna* [410]; Jo *tɔ̀ŋ* [413]; Bobo *fɛ̀gèrɛ̀* [416]; Bozo-J *tuo* [413], *tasa* (< Songai) [–1]; Bozo-K *ndɔ̀lɔ́* [413]; Bozo-T *tɔlɔ* [413], *sere* [414]; Soninke *buttu* / *bútté* [410]; Mau *byɻ́* [405]; Jula-K *bíyán*, *bíyɛn* [405]; Dafing *bi̱ɻ́ɻ́* [405]; Bamana *bíɲɛ*, *byɻ́* [405]; Maninka *bíɲɛ* [405]; Xasonka *búɲa* [405]; Mandinka *jùsu* [409]; Koranko *bíya*, *bɻ́ya* [405]; Lele *fúyiwa* [407]; Mogofin *sɔ̀ndɔ́* [408]; Kakabe *búɲa* [405]; Kono *fàa* [406]; Vai *fà'á* [406]; Soso *bɔ́ɲé* [405]; Jalonke *bɔ́ɲé* [405]; Jogo *bɔ́gɔ̀(n)* [404]; Jeri *bɔ́gɔŋ*, *bɔ́gɔ* [404], *bíyɛ* [405]; Numu *bògɔ́n* [404]; Loko *nɛ̌* [402]; Looma *zi* [403]; Kpelle-L *líi* [403]; Kpelle-G *yɛlɛ* [401]; Bokobaru *pɔ*, *pɔɔ́* [400]; Boko *pɔ*, *pɔá* [400]; Busa *pɔ* [400]; Lebir *fɔ̀ɔ́* [400]; San *foo* [400].

long: Dan-G *gblɻ̄ɻ̄* [417]; Dan-B *gbɻ̄ɻ̄*, *gbɻ̄ɻ̄ŋ̀*, *gbi̱i̱*, *gbɛ̀i̱ŋ̀* [417], *lɔŋ* [418]; Dan-K *drɔ́* [419]; Tura *dʊ̰ʊ̰* [419]; Mano *gbɻ̄i̱* [417]; Guro *tōrō-ī* [421]; Yaure *pɔ̰̀lɪ̀ù* [417]; Gban *gą̀gą̀ą̀* (?) [426]; Mwan *gbɔ̰̄ɔ̰̄* [417]; Wan *blɔ̰̀* [420]; Beng *gblɻ̄ŋ̄* [417], *jɻ̄* [426]; Kpeen *gbą̀* [417]; Kpan *gbą* [417]; Dzuun *gbààn* [417]; Duun *gbaŋ-ma* [417]; Seenku *dyù* [426]; Banka *gbą* [417]; Jo *ŋmà* [417]; Bobo *kú* [424]; Bozo-J *kosą* [424]; Bozo-K *mwɔnɔ* (?) [417]; Bozo-T *xuyon* [424]; Soninke *gille* (?) [417]; Mau *jáŋ*, *yáŋ* [426]; Jula-K *jàn* [426]; Dafing *zą́ązą̀* [426]; Bamana *jă̰* [426]; Maninka *jă̰* [426]; Xasonka *jàŋ* [426]; Mandinka *jàŋ* [426]; Koranko *yą̀* [426]; Lele *yàn* [426]; Mogofin *ká-yą́* [426]; Kakabe *ján* [426]; Kono *yàn-są́* [426]; Vai *jă̰ŋ* [426]; Soso *kuya* [424]; Jalonke *kújá* [424]; Jogo *sɔ̀ɔ̀-mán* [425]; Jeri *sùɔ̰*, *sìɔ̰* [425]; Numu *sɔ̰̀ɔ̰̀-* [425]; Mende *kúhàŋ* [424]; Bandi *kòh̃ó* ("tall") [424]; Looma *kooza(g)* [424]; Kpelle-L *kóyà* [424]; Kpelle-G *kwea* [424]; Bokobaru *gbą̀á* [417]; Boko *gbą̀á* [417]; Busa *gbą̀ná* [417]; Lebir *kyą̀* [422]; San *sasa* [423]; Kyenga *sà* [423]; Shanga *sàà* [423].

louse: Dan-G *wèè* [427], *kɻ̀fă* [430]; Dan-B *lɪ̀ɪ̀* [427]; Dan-K *wèè* [427], *kààŋgbā* [430]; Tura *kààbű* [430]; Mano *wèɛ̀* [427]; Guro *wēì* ~ *wōì* [427]; Yaure *wè* [427]; Gban *glàgbă*, *glàă*, *gbą̆* [430]; Mwan *klàgbà* [430]; Wan *wèŋ̀* [427]; Beng *yìdā* [431]; Kpeen *kpàŋgbà* [430]; Kpan *fi̱fi̱i̱* [434]; Dzuun *kpèyngbɛ* [430], *fínfín* [434]; Duun *fifi* [434]; Banka *fina* [434]; Jo *kpàrĩ̀ŋgà* [430]; Bobo *kpàngbà* [430]; Bozo-J *sɔmɔ* [432]; Bozo-K *hàmú* [432]; Bozo-T *xɔmɔ* [432]; Soninke *duuɲi* / *dúúɲé* [433]; Mau *kààngbà* [430], *ɲúú* [432]; Jula-K *kàràngbá* [430], *ɲúmúgú* [432]; Dafing *ɲàmì* [432]; Bamana *nkàrangá* [430], *ɲími* [432]; Maninka *kàrangbá* [430], *ɲímį* [432]; Xasonka *xàranxa* [430], *ɲámi* [432]; Mandinka *kàranka* [430], *dúɲa* [433]; Koranko *kàrangba* [430], *ɲɛnkɛ* [432]; Lele *kàingbá* [430], *ɲànka* [432]; Mogofin *kàranbá* [430], *ɲàngá* [432]; Kakabe *kàran* [430], *ɲànga* [432]; Kono *ɲànga* [432]; Vai *ɲàá* [432]; Soso *karangbɛ* [430]; Jalonke *gàràngá* [430]; Jogo *wùlú* [427]; Jeri *kàrangba* [430]; Numu *wùlù* [427]; Mende *kárángbá* [430]; Bandi *kàlabá* [430], *nènì* [432]; Looma *kalaba* [430]; Kpelle-L *yāū* [427]; Kpelle-G *yɔw* [427], *kɛlaa*, *kalaa* [430]; Bokobaru *gą́í* [427]; Boko *gą́í* [427]; Busa *sàa* [428]; Lebir *sìŋŋĭr* |*síngìrí*| [429]; San *kɔrɔnkiɛn* [430]; Kyenga *sili* [428]; Shanga *sé* [428].

man: Dan-G *gɔ̰̄ɔ̰̀* [435]; Dan-B *gɔ̰̄ɔ̰́* [435]; Dan-K *gɔ̰̀* [435]; Tura *gʊ̰́ʊ̰́* [435]; Mano *gɔ̰̄* [435]; Guro *gɔ̄nɛ̄* [435]; Yaure *kwlɔ̰̀-mɔ̀* [435]; Gban *kò* [435]; Mwan *gwlɻ̄* [435]; Wan *kɔ̄-lé* [435]; Beng *gɔ̄ŋ̄* [435]; Kpeen *pi̱ĩ̀ŋ* [440]; Kpan *kpii* [440]; Dzuun *kpírí* [440]; Duun *kwi̱i̱* [440]; Seenku *šùrù* [435]; Banka *kpila*, *kpiri* [440]; Jo *šùrù* [435]; Bobo *sìn* [435]; Bozo-J *kaygu* [438]; Bozo-K *hálú* (?) [438]; Bozo-T *xalu* (?) [438];

Soninke *yúgó* [439]; Mau *cɛ̀* [438]; Jula-K *cɛ̀* [438]; Dafing *cɛ́ɛ́* [438]; Bamana *cɛ̌* [438]; Maninka *kɛ̌*, *cɛ̌* [438]; Xasonka *xè* [438]; Mandinka *kèe* [438]; Koranko *kè* [438]; Lele *cè-mɔɔ* [438]; Mogofin *kàyí* [438]; Kakabe *kàyi* [438]; Kono *kàɟ* [438]; Vai *kàí* [438]; Soso *xáméɛ*, *xɛmɛ* [438]; Jalonke *qémé* [438]; Jogo *cínì* [435]; Jeri *kíni* [435]; Numu *kyíní* [435]; Mende *hìnâ* [435]; Loko *ɲíɛ̀* [435]; Bandi *sina* [435]; Looma *zina* [435]; Kpelle-L *sūrôŋ*, *pl. sīnâa* [435]; Kpelle-G *hìlè-nû* [435]; Bokobaru *gɔ̰́* [435]; Boko *gɔ̰* [435]; Busa *gɔ̰* [435]; Lebir *sà* [436]; San *gɪ̰̄ɪ̰̄* [435]; Kyenga *nigɔ̰ni* [435]; Shanga *ezaa* [437].

many: Dan-G *sűmấ* [453], *gbé* [464]; Dan-B *plàʌ̄zʌ̀* [452]; Dan-K *plàá* [452]; Tura *béé* [451]; Mano *kogbùòzɛ* [1007]; Guro *dì* (?) [450]; Yaure *kấgấ* [448]; Gban *nő̰ű* [446], *gbɔ̃ű* [447]; Mwan *sréé* [444], *bűū* [445], *gbɔ̀gbɔ̀* [447], *bèbè* [449]; Wan *bèbè* [449], *tí* [450]; Beng *blèŋ̀* [443], *tè* [450]; Kpan *gi* [473]; Dzuun *gírí* [473]; Duun *ŋɛŋɛ* [472], *giru-ma* [473]; Seenku *mùmà*, *mùmmà* [471], *gùrù* [473], *bùgù* [474]; Jo *mwɔ̀ɔ̀nnà* [471]; Bobo *fĩngĩnĩ* [463], *mū* [471], *ɲán* [472], *bùgū* [474]; Bozo-J *kusa* [469]; Bozo-K *kóɲá* [470]; Bozo-T *kusɛ* [469], *kɔ̰* [470]; Soninke *gàbé* [468]; Mau *šyáá* [465]; Jula-K *šyá* [465]; Bamana *cá*, *cɑ́* [465]; Maninka *síya* [465]; Xasonka *sá*, *sìya* [465], *kìika* (?) [466]; Mandinka *síyaa* [465]; Koranko *síya* [465]; Lele *síya* [465]; Mogofin *síyaa* [465]; Kakabe *síya-man* [465]; Kono *kɔ́kó*, *kókó* [466]; Vai *kú'úŋ* [467]; Soso *gbegbe* [464]; Jogo *fɛ́ɛ́námà* [463]; Jeri *fíé-nè* [463]; Numu *fɛ́ɛ́nè* [463]; Bandi *kpiɲ̃í* [462]; Looma *támaa(g)* [461]; Kpelle-L *támaa* [461]; Kpelle-G *támɑ* [461]; Bokobaru *pàri* [441]; Boko *dàsí* [442], *bílá* [454]; Busa *dàsí* [442], *bítá* [454]; Lebir *gúta* [455], *nwíí* ~ *wíí* [456]; San *damatan* [457], *didi* [458], *gigiɑ* [459]; Kyenga *gbɑ̰́* [460]; Shanga *dààkì* [442].

meat: Dan-G *wū* [477]; Dan-B *wū* [477]; Dan-K *wù* [477]; Tura *wɪ̀ɪ̀* [477]; Mano *wɪ̀ɪ̀* [477]; Guro *wī* [477]; Yaure *wɪ̏* [477]; Gban *wè* [477]; Mwan *wɪ̄* [477]; Wan *wì* [477]; Beng *sōŋ̄* [478]; Kpeen *sô* [478]; Kpan *šo* [478]; Dzuun *šú* [478]; Duun *šwo* [478]; Seenku *kɛ̀kà* [480]; Banka *šoɑ̰* [478]; Jo *šɛ̰̄ɛ̰̄* [478]; Bobo *kɪ̀kā*, *kɪ̀gā*, *kɪ̀gē* [480]; Bozo-J *teu* [479]; Bozo-K *túgú* [479]; Bozo-T *teu* [479]; Soninke *tíyé*, *ciye* [479]; Mau *sòò* [478]; Jula-K *sògó* [478]; Dafing *swó* [478]; Bamana *sògó* [478]; Maninka *sòbó* [478]; Xasonka *sùbu* [478]; Mandinka *sùbu* [478]; Koranko *sògo*, *sòo* [478]; Lele *sòo* [478]; Mogofin *sòwo* [478]; Kakabe *sòbo* [478]; Kono *sùi* [478]; Vai *sùé* [478]; Soso *sube* [478]; Jalonke *sùbé* [478]; Jogo *sɪ̀é* [478]; Jeri *sɪ̀be* [478]; Numu *sɪ̀e* [478]; Mende *hùáŋ*, *hùá* [478]; Loko *ɲòà* [478]; Bandi *sùwà* [478]; Looma *suwa* [478]; Kpelle-L *sūā* [478]; Kpelle-G *hyuo* [478]; Bokobaru *nɔ̀bɔ̀* [475]; Boko *nɔ̀bɔ̄* ~ *nɔ̀ɔ̄* [475]; Busa *nɔ̀bɔ̀* [475]; Lebir *sím* |*sínɪ́*| [476]; San *siɪ̰* [476]; Kyenga *wɛmɔ* [477]; Shanga *sɔ̰ɔ̀* [478].

moon: Dan-G *sű* [482]; Dan-B *sú* [482]; Dan-K *sű* [482]; Tura *méè* [481]; Mano *mɛ̄nɛ̄*, *mlɛ́* [481]; Guro *mɔ̄nɛ̄* [481]; Gban *mé* [481]; Mwan *mlɛ̄ɛ̄* [481]; Wan *bɔ̄lɛ̄ŋ̄* [481]; Beng *mɔ̰̄* [481]; Kpeen *kébé* [488]; Kpan *xuɔ* [487]; Dzuun *kúú* [487]; Duun *ko'o* [487]; Seenku *kɛ̀ ?* [483]; Banka *kogwɑ* (?), *koko* (?) [487]; Jo *ɲé* (?) [483]; Bobo *yū* [486]; Bozo-J *keu* [483]; Bozo-K *háyó* [483]; Bozo-T *xay* [483]; Soninke *xasu* / *xásó* [483]; Mau *káấ* [483]; Jula-K *kárí* [483]; Dafing *kàru* [483]; Bamana *kálo* [483]; Maninka *káro* [483]; Xasonka *xáru* [483]; Mandinka *kári* [483]; Koranko *kári* [483]; Lele *kári*, *káyi* [483]; Mogofin *káré* [483]; Kakabe *kàru* [483]; Kono *káo* [483]; Vai *ká'ó* [483]; Soso *kike*, *kige* [485]; Jalonke *kɪ̀ɪ̀ké* [485]; Jogo *káí* [483]; Jeri *káyi* [483]; Numu *kànkànsɪ́* ("sky charcoal") [484]; Mende *ngálú* [483]; Loko *ngáú* [483]; Bandi *ngàlù(ŋ)* [483]; Looma *ɣáló(g)* [483]; Kpelle-L *ɣáloŋ* [483]; Kpelle-G *ɲaniŋ* [483]; Bokobaru *mɔ́* [481]; Boko *mɔ* [481]; Busa *mɔ* [481]; Lebir *mònɪ́* [481]; San *mui* [481]; Kyenga *mɔ* [481]; Shanga *mɔɔ* [481].

mountain: Dan-G *tɔ̰̃* [497]; Dan-B *tɔ̰̃* [497]; Dan-K *tɔ̃* [497]; Tura *tɔ̰̃ɔ̰̃* [497]; Mano *tɔ̰̃ɔ̰̃* [497]; Guro *gɔ̀* [498]; Yaure *pɔ̰̀* [499]; Gban *kpɪ̏* [489]; Mwan *gɔ̰̄ɔ̰̄* [498]; Wan *gɔ̀ŋ̀* [498]; Beng *dèŋ̀* (?) [496]; Kpeen *fálá* [502]; Kpan *jɛ* [492]; Dzuun *jèn* [492]; Duun *ženi* [492]; Seenku *dyùun* [492], *túnnɔ́* [497]; Banka *gena* [492]; Jo *tɔ̰̀ŋ* [497]; Bobo *tòló* [497]; Bozo-J *sire-kutu* [501]; Bozo-K *koro-sie* (?) [493], *koro-sie* (?) [501]; Bozo-T *sɛrɛ* [501]; Soninke *gídi/e* [492], *segenda* [500]; Mau *kùù* [493], *tɪ̰́nɪ̰́ŋ* [496]; Jula-K *kùrú* [493]; Dafing *kúrú* [493], *kɔ̰̀ŋwɪ̀ì* [495]; Bamana *kùlú* [493]; Maninka *kùrú* [493], *kɔ̀nkɛ́* [494]; Xasonka *kùru* [493]; Mandinka *kònko-baa* [494]; Koranko *kɔ̀nkɔ* [494]; Lele *kɔ̀ngɔ* [494]; Mogofin *kɔ̀nkɔ́* [494]; Kakabe *kɔ̀nkɛ* [494]; Kono *kɔ̀ngɔ* [494]; Vai *kɔ̀ŋɔ́* [494]; Soso *gèyáá* [492]; Jalonke *gèjáá* [492], *kólí* [493]; Jogo *kólé* [493]; Jeri *tìri*, *tùru* [496]; Numu *kólé* [493]; Mende *ngíyé* [492]; Loko *ngíhé* [492]; Bandi *ngéhé*, *ngéhé(ŋ)* [492]; Looma *gizi(g)*, *gizi* [492]; Kpelle-L *yée* [492]; Kpelle-G *yé* [492]; Bokobaru *kpiií* [489], *gbè-sɪ̀sɪ̀* [490]; Boko *gbè-sɪ̀sɪ̀* [490]; Busa *kpi* [489]; Lebir *kyì* [489]; San *kele* [489]; Kyenga *kàsa* [491]; Shanga *kàsà* [491].

mouth: Dan-G *dɪ̋* [503]; Dan-B *dɪ́* [503]; Dan-K *lɪ̋* [503]; Tura *dɛ̃* [503]; Mano *lé* [503]; Guro *lēé* [503]; Yaure *lɛ̄-bò* [503]; Gban *lű* [503]; Mwan *lìì* [503]; Wan *lā-gá* [503]; Beng *yé* [503]; Kpeen *dígí* [503]; Kpan *dii* [503]; Dzuun *ʤíí*, *ʤú* [503]; Duun *ŋa'a* [504]; Seenku *ʤò* [503]; Banka *jigɑ̰* [503]; Jo *tɔ̰̀ŋ* [503]; Bobo *dō* [503]; Bozo-J *la* [503]; Bozo-K *lógó* [503]; Bozo-T *la* [503]; Soninke *raxa* / *ráqqé* [503]; Mau *lấ* [503]; Jula-K *dá* [503]; Dafing *dà* [503]; Bamana *dá* [503]; Maninka *dá* [503]; Xasonka *dá* [503]; Mandinka *dáa* [503]; Koranko *dá* [503]; Lele *dá* [503]; Mogofin *dá* [503]; Kakabe *dàa* [503]; Kono *dá* [503]; Vai *dá* [503]; Soso *déɛ́* [503]; Jalonke *déɛ́* [503]; Jogo *dáa* [503]; Jeri *dá* [503]; Numu *dá* [503]; Mende *ndá* [503];

Loko *ǹdá* [503]; Bandi *ndà* [503]; Looma *da*, *da(g)* [503]; Kpelle-L *lá* [503]; Kpelle-G *la* [503]; Bokobaru *lɛ́* [503]; Boko *lé* [503]; Busa *lé* [503]; Lebir *lé (lè')* [503]; San *lé* [503]; Kyenga *lé* [503]; Shanga *lé* [503].

name: Dan-G *tɔ́* [505]; Dan-B *tɔ́* [505]; Dan-K *tɔ́* [505]; Tura *tɔ̃́* [505]; Mano *tɔ́* [505]; Guro *tɔ́* [505]; Yaure *tɔ́* [505]; Gban *tɔ̃́* [505]; Mwan *tɔ́* [505]; Wan *tɔ́* [505]; Beng *tɔ́* [505]; Kpan *thuɔ* [505]; Dzuun *ʦóo* [505]; Duun *šwɔ'ɔrɔ* [505]; Seenku *tōgò* [505]; Banka *šwɑ̰'ɑ̰* [505]; Jo *tɔ́* [505]; Bobo *tōgō* [505]; Bozo-J *tubɛ* (?) [505]; Bozo-K *tɔ́ɣɔ́* [505]; Bozo-T *tɔɔ* [505]; Soninke *toxi* / *tóxó* [505]; Mau *tɔ́ɔ̃́* [505]; Jula-K *tɔ́gɔ́* [505]; Dafing *twɔ̀* [505]; Bamana *tɔ́gɔ* [505]; Maninka *tɔ́ɔ* [505]; Xasonka *tóxo* [505]; Mandinka *tóo* [505]; Koranko *tɔ́gɔ*, *tóo*, *tɔ́ɔ́* [505]; Lele *tɔ́ɔ* [505]; Mogofin *tɔ́gɛ̀* [505]; Kakabe *tɔ́gɔ* [505]; Kono *tɔ́* [505]; Vai *tɔ́ɔ́* [505]; Soso *xili* [507]; Jalonke *qílí* [507]; Jogo *tɔ́gɔ́* [505]; Jeri *tɔ́gɔ* [505]; Numu *tògɔ̀* [505]; Mende *ndá* [506]; Loko *ndàà*, *ndá* (?) [506]; Bandi *ndàa-héi(ŋ)* [506]; Looma *daa-zei(g)*, *da-sɛ(g)* [506]; Kpelle-L *láa* [506]; Kpelle-G *la* [506]; Bokobaru *tɔ́* [505]; Boko *tɔ́* [505]; Busa *tɔ́* [505]; Lebir *tɔ́* [505]; San *tɔ* [505]; Kyenga *tɔ́* [505]; Shanga *toó* [505].

neck: Dan-G *bɔ̄* [511]; Dan-B *bɔ̄* [511]; Dan-K *bɔ̃́* [511]; Tura *vèlè* [513]; Guro *bɔ̄lɔ̄* [511]; Yaure *blɔ̃̀* [511]; Gban *wɛ́* [510], *βè* [513]; Mwan *blɔ̄* [511]; Wan *ōlí* [512]; Beng *lò* [514]; Kpan *vo* [511]; Dzuun *vú* [511]; Duun *vo* [511]; Seenku *gù* [516]; Banka *vwɑ̰* [511]; Jo *yɛ̀* [517]; Bobo *mògó* [519]; Bozo-J *bondo* [511]; Bozo-K *háŋɔ́* [517]; Bozo-T *xan* [517]; Soninke *xaN* / *xánné* [517]; Mau *káŋ* [517]; Jula-K *kán* [517]; Dafing *kɑ̰̀* [517]; Bamana *kɑ́* [517]; Maninka *kɑ́* [517]; Xasonka *xáŋ* [517]; Mandinka *káŋ* [517]; Koranko *kɑ́* [517]; Lele *kɑ́* [517]; Mogofin *kɑ́* [517]; Kakabe *kán* [517]; Kono *kɑ́* [517]; Vai *káŋ* [517]; Soso *kɔ̌n* [516]; Jalonke *kɔ̀ń* [516]; Jogo *wùrà-kɔ̂(n)* [516], *fólín* [518]; Jeri *ku* [516]; Numu *fólí* [518]; Mende *kɔngá* [516]; Loko *kɔnga* (Koelle) [516]; Bandi *kɔngà(ŋ)* [516]; Looma *kɔ(g)* [516]; Kpelle-L *kɔ̄ŋ* [516]; Kpelle-G *kɔŋ* [516]; Bokobaru *wáà* [508]; Boko *wáā* [508], *nɔ̀é* [509]; Busa *wákà* [508]; Lebir *wěr* [510]; San *bɔ́lɔ́* [511]; Kyenga *lɔkɔ* [514]; Shanga *kotoó'* [515].

new: Dan-G *dɛ̀è* [521]; Dan-B *dɾ̂û*, *dɑ̂û* [521]; Dan-K *dɛ̀ɛ̀* [521]; Tura *dɛ̃́ɛ́* [521]; Mano *dɛ̄ɛ̄* [521]; Guro *dɛ̄lɛ̄* [521]; Yaure *tɛ̀rɛ̀* [521]; Gban *dòà* [521]; Mwan *drɛ̄* [521]; Wan *tɔ̀lé* [521]; Beng *dà-drɛ̄* [521]; Kpan *jɛi* [521]; Dzuun *yé*, *yéú* [521], *kyèèróŋ* [523]; Duun *žeo*, *žere* [521]; Seenku *sigɛ* [1011]; Banka *ɣie* [521]; Jo *ŋùnɑ̰̀ŋ* (?) [522]; Bobo *ŋwún* (?) [522]; Bozo-J *toi* [521]; Bozo-K *tòrí* [521]; Bozo-T *tori* [521]; Soninke *kúrúmbá* [524]; Mau *kwáá* [523]; Jula-K *kúrá* [523]; Dafing *kùrà* [523]; Bamana *kúra* [523]; Maninka *kúda*, *kúra* [523]; Xasonka *kúta* [523]; Mandinka *kúta* [523]; Koranko *kúra* [523]; Lele *kúya*, *kúra* [523]; Mogofin *nàma* [522]; Kakabe *nàma* [522]; Kono *nàma* [522]; Vai *námá* [522]; Soso *nɛɛnɛ* [522]; Jalonke *néɛnè* [522]; Jogo *nǎn* [522]; Jeri *nàŋ* [522]; Numu *nàn* [522]; Mende *nìnǎ* [522]; Loko *nyiɛ* [522]; Bandi *nìina* [522]; Looma *niinɛ* [522]; Kpelle-L *nīnā* [522]; Kpelle-G *ninɛ* [522]; Bokobaru *dufú* [520]; Boko *dafú*, *defú* [520]; Busa *dufú* [520]; Lebir *dàá* [521]; San *díí* [521]; Kyenga *dɛlɛ* [521]; Shanga *dèè* [521].

night: Dan-G *bí̱* [527], *gbēŋ̄* [532]; Dan-B *bí̱* [527], *gbēŋ̄* [532]; Dan-K *gbēŋ̄* [532]; Tura *gbèì* [532]; Mano *bí̱ɛ́* [527]; Guro *bēlī*, *bēyī* [532]; Yaure *pèì-màn* [532]; Gban *túé* [530]; Mwan *bì* [527]; Wan *cíŋ* [531]; Beng *yrú* [529]; Kpeen *fɛ́ɛ́ŋgò* [536]; Kpan *fɛ̨-ne* [536]; Dzuun *fén* [536]; Duun *fɛ̨* [536]; Seenku *gwɔ̃̀* [526]; Banka *fɛna* [536]; Jo *cíí* [531]; Bobo *wùrū* [526]; Bozo-J *guu* [526]; Bozo-K *gùlú* [526]; Bozo-T *gulu* [526]; Soninke *wuru* / *wùró* [526]; Mau *sú* [533]; Jula-K *sú* [533]; Dafing *sù* [533]; Bamana *sú* [533]; Maninka *sú* [533]; Xasonka *sú* [533]; Mandinka *súu* [533]; Koranko *súu* [533]; Lele *swí* [533], *pìnpi* [534]; Mogofin *sú* [533]; Kakabe *súu* [533]; Kono *súu* [533], *pimbi* [534]; Vai *lìfí* [535]; Soso *kɔ́ɔ̀* / *kwéɛ̀* [528]; Jalonke *kwéɛ̀* [528]; Jogo *kúrò* [528]; Jeri *kúroŋ*, *kúruŋ* [528]; Numu *kúró* [528]; Mende *kpíndí* [532]; Loko *kpíndí* [532]; Bandi *kpìndí* [532]; Looma *kpidi*, *kpídìŋ* [532]; Kpelle-L *kpíni* [532]; Kpelle-G *kwi* [528], *kpini* [532]; Bokobaru *gwɑ́* [526]; Boko *gwɑ́* [526]; Busa *gwɑ́* [526]; Lebir *gùnú*, *gyìnú* [526]; San *tɛ̀lo* [525]; Kyenga *gɑ̨ɔní* [526]; Shanga *gu sì* [526].

nose: Dan-G *yī̱* [537]; Dan-B *yī̱* [537]; Dan-K *yì̱* [537]; Tura *yí̱í̱* [537]; Mano *yī̱* [537]; Guro *yɛ̄* [537]; Yaure *yɛ̀-bɔ̀* [537]; Gban *yí̱* [537]; Mwan *yī̱* [537]; Wan *yɛ́* [537]; Beng *yí̱ɛ́* [537]; Kpeen *kùwɔ́* [538]; Kpan *xɔ* [538]; Dzuun *xɔ́n* [538]; Duun *xwɔ-dï'ï* [538]; Seenku *bùnù* (?) [537]; Banka *xwɑ̰ŋ* [538]; Jo *ɲén-tà* [538]; Bobo *bīn* [537]; Bozo-J *mu̱u̱* [537]; Bozo-K *múnú* [537]; Bozo-T *muun* [537]; Soninke *nuxuN* / *núxúnné* [537]; Mau *nũ̱ŋ* [537]; Jula-K *nún* [537]; Dafing *nùù* [537]; Bamana *nú̱* [537]; Maninka *nú̱* [537]; Xasonka *núŋ* [537]; Mandinka *núŋ* [537]; Koranko *sú̱* [537]; Lele *sú̱* [537]; Mogofin *sú̱* [537]; Kakabe *sún* [537]; Kono *sú̱* [537]; Vai *sûŋ* [537]; Soso *ɲɔ́ɔ́*, *ɲwéé* [537]; Jalonke *ɲwéé* [537]; Jogo *sú̱* [537]; Jeri *súŋ-gbàlà* [537]; Numu *sù̱n* [537]; Mende *hókpá* [537]; Loko *hókpá* [537]; Bandi *sòkpá* [537]; Looma *sokpa* [537]; Kpelle-L *sú̱a* [537]; Kpelle-G *huguɔ* [537]; Bokobaru *yí̱* [537]; Boko *ní* [537]; Busa *yí̱* [537]; Lebir *mĭi* [537]; San *ɲin* [537]; Kyenga *ɣí̱* [537]; Shanga *í̱í̱* [537].

not: Guro *lo* [539]; Mwan *la* [539]; Wan *ɔ́* [539]; Kpan *na* [547]; Dzuun *ma*, *maa* [543], *fá* [546]; Duun *na* [547]; Banka *ma* [543]; Jo *kì* [1000]; Bobo *má* [543]; Bozo-T *te* [542]; Soninke *ntá* (imperfectif) [542], *má* (perfective) [543], *fe* (negative copula) [546]; Mau *tɛ* [542], *ma*, *mɑ̨* [543]; Jula-K *tí* [542], *má* [543]; Dafing *tì* [542], *mà* [543]; Bamana *té*, *té* [542], *má* [543]; Maninka *té* [542], *má* [543]; Xasonka *nté* [542], *mée* [543]; Mandinka *té* [542], *máŋ* [543]; Koranko *sá* [541], *té* [542], *má* [543]; Lele *sá* [541], *té* [542], *má* [543]; Mogofin *má* [543], *bélè* [544]; Kakabe *má* [543], *bélè* [544]; Kono *má* [543], *ní* [545]; Vai *má* [543], *bé'è* [544]; Soso *mú* [541]; Jalonke *mún* [541]; Jogo *rɔ́* [539]; Jeri *tɛ*, *ndɛ* [542]; Lebir *bí* [540].

one: Dan-G *dō* [548]; Dan-B *dō* [548]; Dan-K *dò* [548]; Tura *dó* [548]; Mano *dōó* [548]; Guro *dʊ̄* [548]; Yaure *tʊ̋* ~ *tù* ~ *tʊ̀* [548]; Gban *dò* [548]; Mwan *dō* [548]; Wan *dō* [548]; Beng *dō* [548]; Kpeen *séélè* [554]; Kpan *sɔɔi* [554]; Dzuun *sóó*, *són* [554]; Duun *soɛ'* [554]; Seenku *sòèn* [554]; Banka *fiɛ* [555]; Jo *tàŋ* [553]; Bobo *tèlè*, *tàlà* [553]; Bozo-J *sanna* [554]; Bozo-K *kɛnɛ* [550]; Bozo-T *kuɔn* [550], *sanna* [554]; Soninke *báané* [552]; Mau *kéẽŋ* [550]; Jula-K *kélen* [550]; Dafing *cɛ̀* [550]; Bamana *kélɛ̨* [550]; Maninka *kélɛ̨* [550]; Xasonka *kíliŋ* [550]; Mandinka *kíliŋ* [550]; Koranko *kélɛ̨* [550]; Lele *kélɛn*, *célɛn* [550]; Mogofin *dɔ́ndɔ̀* [548]; Kakabe *kélen* [550]; Kono *dɔ́ndɔ́* [548], *ncélén* [550]; Vai *lɔ̀ndɔ́* [548]; Soso *kérén* [550]; Jalonke *kédéń* [550]; Jogo *díé(n)* [551]; Jeri *díe(n)* [551]; Numu *díén* [551]; Mende *ngìlá* [550]; Loko *ngèrá(ŋ)* [550]; Bandi *ngìlàà(ŋ)* [550]; Looma *gila(g)* [550]; Kpelle-L *táaŋ* [553]; Kpelle-G *taŋ* [553]; Bokobaru *do* [548]; Boko *do* [548]; Busa *do* [548]; Lebir *díim* [548]; San *goon* [549]; Kyenga *du* [548]; Shanga *dòò* [548].

man, **person**: Dan-G *mɛ̄* [557]; Dan-B *mɛ̄* [557]; Dan-K *mɛ̀* [557]; Tura *méɛ̀* [557]; Mano *mɪ̄* [557]; Guro *mɪ̄* [557]; Yaure *mì* [557]; Gban *mʊ́* [557]; Mwan *mɛ̄ɛ̄* [557]; Wan *mɪ̄* [557]; Beng *sɔ̀nŋ̀* [559]; Kpeen *mwɔ́n* [557]; Kpan *moị* [557]; Dzuun *mɔ̀-ɗíìn* [557]; Duun *mɔ'ɛ̨di* [557]; Seenku *mɔ̀* [557]; Banka *mo'o-wɪri* [557]; Jo *kọ̀nạ́ŋ* [561]; Bobo *sŏn* [559]; Bozo-J *ɲimi* [560]; Bozo-K *ɲíníˊ* [560]; Bozo-T *muɔ* [557]; Soninke *sere* [559]; Mau *mɔ̀ɔ̀* [557]; Jula-K *mɔ̀gɔ́* [557]; Dafing *mɔ́* [557]; Bamana *mɔ̀gɔ́,* [557]; Maninka *mɔ̌ɔ* [557]; Xasonka *mɔ̀xo* [557]; Mandinka *mɔ̀o* [557]; Koranko *mɔ̀gɔ* [557]; Lele *mɔ̀ɔ* [557]; Mogofin *mɔ̀gɛ́* [557]; Kakabe *mɔ̀gɔ* [557]; Kono *mɔ̀* [557]; Vai *mɔ̌* [557]; Soso *mìxíˊ* [557]; Jalonke *mèqɛ́* [557]; Jogo *mɔ̀gɔ́* [557]; Jeri *mùgú* [557]; Numu *mɔ̀gọ̀* [557]; Mende *nú* [558]; Loko *nú* [558]; Bandi *nù* [558]; Looma *nu* [558]; Kpelle-L *núú* [558]; Kpelle-G *nuu* [558]; Bokobaru *gbɛ́* [556]; Boko *gbɛ́* [556]; Busa *gbɛ́* [556]; Lebir *gwáá* [556]; San *min* [557]; Kyenga *gucɛ* [556]; Shanga *gwɛ́ɛ́* [556].

rain: Dan-G *dâ* [562]; Dan-B *dâ* [562]; Dan-K *là* [562]; Tura *dǎ* [562]; Mano *lɛ̄-yíˊ* [564]; Guro *lɛɛ́* [564]; Yaure *làá* [562]; Gban *gwlɛ́* [563]; Mwan *lā* [562]; Wan *cɪ́*, *cɪ́ŋ* [567]; Beng *lā* [562]; Kpeen *ŋárà jí* ("God's water") [571]; Kpan *ŋaa* [571]; Dzuun *ŋáá* [571]; Duun *maŋkara-dị* [571]; Seenku *sɔ́n* [568]; Banka *ŋga* [571]; Jo *kìrɪ̀ŋ* [567]; Bobo *wūrò* ('sky, rain') [570]; Bozo-J *kwạ̀* [568]; Bozo-K *hàbá* [569]; Bozo-T *xɔin-ji* [568]; Soninke *kaN* / *kàmmé*, *kanji* [568]; Mau *sấŋ* [568]; Jula-K *sán*, *sájyé* [568]; Dafing *sạ̀* [568]; Bamana *sán* [568]; Maninka *sán* [568]; Xasonka *sán-jii* [568]; Mandinka *sán-ji* [568]; Koranko *sɛ́kíˊ* [568]; Lele *sányi* [568]; Mogofin *sángei* [568]; Kakabe *sángi* [568]; Kono *sòna* [565]; Vai *sòná* [565]; Soso *tùné* [565]; Jalonke *tùné* [565]; Jogo *cíí* [567]; Jeri *kíˊ*, *kíi*, *cíˊ*, *cíi* [567]; Numu *kyíˊ* [567]; Mende *njă* ('water; rain') [831]; Loko *njà* ('water; rain') [831]; Bandi *ɲjɛíˊ* ('water; rain') [831]; Looma *tíne*, *tune* [565]; Kpelle-L *tīnā*, *tūnā* [565]; Kpelle-G *tulo* [565]; Bokobaru *lòu* [564]; Boko *lèu* [564]; Busa *lègụ* [564]; Lebir *lá* [562]; San *lá* [562]; Kyenga *lá* [562]; Shanga *là* [562].

red: Dan-G *zɔ̀ɔ̀dɛ̄* [573]; Dan-B *nụ̄ɛ̄ɛ̄zʌ̂* [574]; Dan-K *tɑ́* [572]; Tura *tɛ́ɛ́* [572]; Mano *zóló* [573]; Guro *sɔ̰̄ɔ̰̀* [573]; Yaure *tɛ́-dɛ́* [572]; Gban *gbɑ́-tɑ́ɑ́* [572]; Mwan *tɛ́* [572]; Wan *tɛ́* [572]; Beng *tɛ́ɛ́* [572]; Kpeen *kéè* [584]; Kpan *xeey* [584]; Dzuun *xèò* [584]; Duun *xio-ma* [584]; Seenku *sèn* [572]; Banka *xie* [584]; Jo *kìlɛ̀* [584]; Bobo *pēnēn*, *pēnē* [583]; Bozo-J *tɔmɔ* [582]; Bozo-K *tɔŋɔ* [582]; Bozo-T *tɔɔmɔ* [582]; Soninke *dùmbé* [581]; Mau *yẅèŋ* [579]; Jula-K *wùlén* [579]; Dafing *wlɛ́*, *lwɛ́* [579]; Bamana *bìlɛ́* [579]; Maninka *wùlɛ́* [579]; Xasonka *wùle* [579]; Mandinka *wùle(ŋ)* [579]; Koranko *wùlɛ̨* [579]; Lele *wùlɛn* [579]; Mogofin *wùlɛ́* [579]; Kakabe *wúlɛn* [579]; Kono *yàwa*, *yàa* [580]; Vai *jàá* [580]; Soso *gbeli* [577]; Jalonke *gwéélíˊ* [577]; Jogo *tàná* [572]; Jeri *tàna* [572]; Numu *tɛ́rɑ̀màn* [572]; Mende *kpɔ́lú* [577]; Loko *kpɔ̀ù* [577]; Bandi *kpèá(ŋ)* [577]; Looma *kpóei*, *kpɔyɛ(g)* [577]; Kpelle-L *kpɔlū* [577]; Kpelle-G *kpɔlu* [577]; Bokobaru *tɛ́-aá* [572]; Boko *tɛ́ɛ́ɛ́* [572]; Busa *tɛ́ɛ́* [572]; Lebir *bʊ́mbwɛɛnda* [575], *ŋwáada* [576]; San *tɑ* [572]; Kyenga *tɛ́* [572]; Shanga *cé* [572].

road: Dan-G *zɪ̄ā̰* [585]; Dan-B *zɪ̄ā̰* [585]; Dan-K *zìɑ̀ŋ̀* [585]; Tura *záà* [585]; Mano *zɪ̄* [585]; Guro *zɪ̄* [585]; Yaure *sì* [585]; Gban *díˊ* [585]; Mwan *zɪ̄* [585]; Wan *zɪ̄* [585]; Beng *zrë* [585]; Kpeen *sé* [585]; Kpan *še* [585]; Dzuun *shíˊ* [585]; Duun *sira-na* [585]; Banka *šiɑ* [585]; Jo *sáá* [585]; Bobo *sògō* [587]; Bozo-J *sɛ* [587]; Bozo-K *kìŋɔ́* [585]; Bozo-T *syen* [587]; Soninke *killi* / *kìllé* [585]; Mau *šyáá* [585]; Jula-K *síra* [585]; Dafing *sìrà* [585]; Bamana *síra* [585]; Maninka *síla* [585]; Xasonka *síla* [585]; Mandinka *síla* [585]; Koranko *kéla*, *kíla* [585]; Lele *kíla* [585]; Mogofin *kíla* [585]; Kakabe *kìla* [585]; Kono *cía* [585]; Vai *kɪ̋à* [585]; Soso *kìráà* [585]; Jalonke *kìráá* [585]; Jogo *cílì* [585]; Jeri *kílʲ/o*, *kúlᵘ/o* [585]; Numu *kílíˊ* [585]; Mende *pèlé* [586]; Loko *pèlè* [586]; Bandi *pèlě* [586]; Looma *pele* [586]; Kpelle-L *pērē* [586]; Kpelle-G *pēlē* [586]; Bokobaru *zɛ́* [585]; Boko *zé* [585]; Busa *zé* [585]; Lebir *zàá*, *záa* [585]; San *zii* [585]; Kyenga *zélɛ* [585]; Shanga *zɛɛ* [585].

root: Dan-G *yṵ̄* [592]; Dan-B *yṵ̄* [592]; Dan-K *mù* [592], *wű* (?) [593]; Tura *sîì* [596]; Mano *gáná* [589]; Guro *sū-nɪ̄* [596]; Yaure *sɛ̰́ɪ̰́* [596]; Gban *sɑ́* [592]; Mwan *sé-né* ~ *sɛ́-né* [596]; Wan *sɛ̰̄nɪ̰̄* [596]; Beng *nɪ̄ŋ̄* (?) [596]; Kpeen *gɔ́ɔ̀-gíì* [596]; Kpan *ɣii* [596]; Dzuun *jíí* [596]; Duun *gii* [596]; Banka *ji-ra* [596]; Jo *kạ̀ŋ*, *kạ̀nạ̀* (?) [594]; Bobo *sùlù* [596]; Bozo-J *sɑndo* (?) [592]; Bozo-K *díríˊ* [596]; Bozo-T *sụ̰* [596]; Soninke *ɲìimɛ* [597]; Mau *dɪ̰́ŋ* [596]; Jula-K *lílín* [596]; Dafing *lwìilwìi* [596]; Bamana *díli* [596]; Maninka *líliˊ* [596]; Xasonka *lílli* [596]; Mandinka *súlu* [596]; Koranko *súlu* [596]; Lele *súlu* [596]; Mogofin *líli*

[596]; Kakabe *lɩ́ili* [596]; Kono *súu* [596]; Vai *sú'ú* [596]; Soso *sanke* (?) [592]; Jalonke *fàǹsá* [595]; Jogo *kún* [594]; Jeri *nɔ̀ŋ* [594]; Numu *kṵ́n* [594]; Mende *hàpé* [592]; Loko *hápè* [592]; Bandi *sàpè* [592]; Looma *sape* [592], *ɲata* [593]; Kpelle-L *sāmē* [592]; Kpelle-G *hamu* [592]; Bokobaru *kaasa* [588]; Boko *zi̱ńá* [596]; Busa *zi̱ńí* [596]; Lebir *gòmasi* [590]; San *gòon* [590]; Kyenga *mìsa* [591]; Shanga *kaàsì* [588].

round: Dan-G *dɵ̃́dɵ̃̀* [599]; Dan-B *dɵ̃́ûdɵ̃́û*, *dɵ̃́ɾdɵ̃́* [599], *klɔ́ɔklɔ́* [602]; Dan-K *glṵ́ṵ́glṳ̀* [602]; Tura *gɩ̀nɩ̀yɛ̀* [602]; Mano *kɛ́lɛ́kɛ̀lɛ̀* [602]; Guro *lɪ̄lɪ̄* [599], *kēlèè* [602]; Yaure *kúlú-gúlú* [602]; Gban *lɩ̃̀lè* [599], *güù*, *gbüù* [602]; Mwan *trūū* [599]; Wan *glùú* [602]; Beng *klɩ̀lɩ̀* [602]; Kpan *xɔ̱ɔ̱ri-ma* [608]; Dzuun *kòòró* ('round off') [608]; Duun *kṵširomą* [610]; Banka *xworo-ma* [608]; Jo *kùùlɩ̀mą̀ą̀* [608]; Bozo-J *gṵmę* [609]; Bozo-K *kori* [608]; Bozo-T *koorina* [608]; Soninke *buudi* [601]; Bamana *kúlukùtú* [602]; Maninka *tíndan* [605]; Xasonka *godongoda* [604], *durunderendiŋ* [607]; Mandinka *múruu*, *múruŋ* [606]; Koranko *tíntan-ni* [605]; Lele *latindeen* [605]; Mogofin *rádɩ̀girindén* [599]; Kono *tíndan-den* [605]; Soso *digilin* [599], *gundu* [604]; Jogo *kúlúkúlú* [602]; Jeri *kóróndó*, *kóróró* [603]; Numu *kùrúkùrúá* [602]; Mende *kɛ́lɛ́kɛ́lɛ́* [602]; Bandi *kɛ̀lɛ́yɛ̀lɛ̀* [602]; Looma *kɛlɛyɛlɛ(g)* [602]; Kpelle-L *kérékéré* [602]; Kpelle-G *kiliɣiliŋ* [602]; Bokobaru *botogo* [598]; Boko *boolo* [598]; Busa *bunduru* [598], *búkútú* [601]; San *luurii* [599]; Kyenga *lokoto* [600]; Shanga *lókòci* [600].

sand: Dan-G *yɛ̃́ɛ̃́* [613]; Dan-B *yɑ́ɲ́*, *yáɲ́* [613]; Dan-K *yɛ̃́ɛ̃́* [613]; Tura *kɛ̱ɛ̱* [613]; Mano *yɛ̱ɛ̱-sélé* [613]; Guro *yɛ̱nɛ̱* [613]; Yaure *yɛ̀rɛ̱* [613]; Gban *yɛ̱̃* [613]; Mwan *yrɛ̱* [613]; Wan *wɛ́ɲ́* [613]; Beng *ɲùn-mɔ́ntré* (?) [614]; Kpeen *sɩ́sɩ́né* [613]; Kpan *šɛ̱šɛ̱* [613]; Dzuun *céncén* [613]; Duun *šiɛ̱-di* [613]; Seenku *kyiŋē* [613]; Banka *cɛ̱cɛ̱* [613]; Jo *ɲɛ̱nɩ̀ŋ* [613]; Bobo *yègé*, *bàn-yēgē*, *bàmà-yēgē* [613]; Bozo-J *syɛ* [616]; Bozo-K *tɔ́* [618]; Bozo-T *xamu* [617]; Soninke *sèyɩ́ŋè*, *saye* [616]; Mau *cɛ̱* [613]; Jula-K *kèngén* [613]; Dafing *cɩ̃́ɛ̱́* [613]; Bamana *cɛ̱́*, *cɛ̱cɛ́* [613]; Maninka *kɩ̀ɲé*, *tɩ̀ɲé*, *cɩ̀ɲé* [613]; Xasonka *kèɲe* [613]; Mandinka *kèɲe*, *kèɲekeɲe* [613]; Koranko *cèncèn*, *kènkèn* [613]; Lele *cèeka*, *kèeka* (?) [613]; Mogofin *mèɲéɲɛ* [613]; Kakabe *kèɲɛkéɲɛ* [613]; Kono *tèku* [615]; Vai *kèɲé* [613]; Soso *mɛyɛɲi*, *mɛɛɲi* [613]; Jalonke *qéɲé* [613]; Jogo *ɲàgân* [613]; Jeri *kpɛ̱́*, *kpɛ̱́ɛ̱*, *kpèŋ* [613]; Numu *ɲìngán* [613]; Mende *ɲàɲá* [613]; Loko *ɲèà* [613]; Bandi *ŋɩ̀ɣɛ̀* [613]; Looma *yáɑza(g)*, *ɲáayɛ̱́(g)* [613]; Kpelle-L *ŋɛ̱̄yā* [613]; Kpelle-G *ŋeia* [613]; Bokobaru *bùsù-ɣɑatɛ̱́* [611]; Boko *ɣṵfɑa* [612]; Busa *bùsù-ɣátɛ̱́* [611]; Lebir *ɲìntáa* [613]; San *ɲɔɔ-sɔ* [614]; Kyenga *ɣaatɛ̱́-fu* [611]; Shanga *íyɑa* [613].

say: Dan-G *pɔ̃̄* [619]; Dan-B *pɔ̃̄* [619]; Dan-K *pɔ̀* [619]; Tura *pé* [619]; Mano *gèē* [620]; Guro *fɪ̄* [619]; Yaure *ví* (?) [619], *tɩ̱̀* [630]; Gban *kɛ̀* [620]; Mwan *pē* / *pé* [619]; Wan *pé* [619]; Beng *pē* [619]; Kpeen *dè* [623]; Kpan *žee-ma* [623]; Dzuun *dè* [623]; Duun *že* [623]; Seenku *dyù* [623]; Banka *je* [623]; Jo *bɩ̀* (?) [619], *tú* (?) [628]; Bobo *dɛ̄* [623], *yīrā* [632]; Bozo-J *se* [631]; Bozo-K *ši* [631]; Bozo-T *se* [631]; Soninke *tɩ̃́* / *tiini* [630]; Mau *fɔ́* [619]; Jula-K *fɔ́*, *fwɔ́* [619]; Dafing *fɔ̀* [619]; Bamana *fɔ́* [619]; Maninka *fɔ́* [619]; Xasonka *fó* [619]; Mandinka *fó* [619]; Koranko *fɔ́* [619]; Lele *fɔ́* [619]; Mogofin *fɔ́* [619]; Kakabe *fɔ́* [619]; Kono *fɔ́* [619]; Vai *fɔ́* [619]; Soso *fala* [629], *tɩ̀ɩ́* [630]; Jalonke *fàlá* [629]; Jogo *rɛ* [623]; Jeri *tɔ́gɔ* [628], *tè* [630]; Numu *tɔkɔ* [628]; Mende *ndé* [623], *yè* [624]; Loko *ké* [625]; Bandi *ndè* [623], *kɛ* [625]; Looma *ké* [625], *bo(g)* [626]; Kpelle-L *yɛ̄ɛ̄* [624], *ké* [625], *bó* [626], *yɛpɛ* [627]; Kpelle-G *kɛ* [625], *bo* [626], *hvaa* [629]; Bokobaru *be* [621]; Boko *mɛ* [622]; Busa *pi* [619]; Lebir *pì ... m* [619]; San *pé* [619]; Shanga *hɩ̱* [619].

see: Dan-G *yɔ̃̄* [633]; Dan-B *yɔ̃̄* [633]; Dan-K *yè* [633]; Tura *yé* [633]; Mano *gɛ̱̀* [634]; Guro *yī* [633]; Yaure *yì* [633]; Gban *yè* [633]; Mwan *yē* / *yé* [633]; Wan *é* [633]; Beng *yè* [633]; Kpeen *jé* [633]; Kpan *jaa-ma* [633]; Dzuun *jáá* [633]; Duun *si* [639]; Seenku *dyò* [633]; Banka *ja* [633]; Jo *jà* [633]; Bobo *zà* [633]; Bozo-J *kai* [637]; Bozo-K *hɛ* [637]; Bozo-T *xay* [637]; Soninke *yingi* / *-ni* (?) [633], *wàrɩ́* [635]; Mau *yé* [633]; Jula-K *yé* [633]; Dafing *yè* [633]; Bamana *yé* [633]; Maninka *yɛ̱́*, *yé* [633]; Xasonka *jé* [633]; Mandinka *jé* [633]; Koranko *yɛ̱́* [633]; Lele *yén* [633]; Mogofin *yɛ̱́* [633]; Kakabe *yén* [633]; Kono *yɛ̱́* [633]; Vai *fɛ́'é* [638]; Soso *tó* [636]; Jalonke *tóó* [636]; Jogo *jí* [633]; Jeri *ji* [633]; Mende *tɔ́* [636]; Loko *tɔ́* [636]; Bandi *tɔ́* [636]; Looma *ka* [637]; Kpelle-L *káa* [637]; Kpelle-G *ka* [637]; Bokobaru *ɣe* [633]; Boko *ɣe* [633]; Busa *ɣe* [633]; Lebir *yí* [633]; San *yɛ̄* [633]; Kyenga *wa* [635]; Shanga *wa* [635].

seed: Dan-G *gā* [649]; Dan-B *gā* [649]; Dan-K *gà* [649]; Tura *wéé* [645]; Mano *wélé* [645], *sɪ̄ɪ̄* [648]; Guro *wɔ́lé* [645]; Yaure *wélé* [645]; Gban *wlɩ̃́*, *wlɩ̱́* [645]; Mwan *bɛ̄* [643]; Wan *ɡ̱ŋ* [645]; Beng *wlé* [645]; Kpan *gee-zɩ̱ɩ̱* [647]; Dzuun *gè-dɪ̀ɪ́ín* [647]; Duun *dɩ̱* ("child") [647]; Seenku *dè* [647]; Banka *di-na* [647]; Jo *dáŋ* [642]; Bobo *tɔ̀gō* [651]; Bozo-J *sṵṵro* [644], *sɩ́* [648]; Bozo-T *sɔɔri* [644]; Soninke *sòxòodé* [644]; Mau *sɩ̃́* [648]; Jula-K *sí* [648], *kìsé* [650]; Dafing *sì* [648], *césé* [650]; Bamana *sí* [648], *kìsé* [650]; Maninka *sí* [648], *kìsé* [650]; Xasonka *sí* [648], *kèse* [650]; Mandinka *kèse* [650]; Koranko *kólo* [645]; Lele *sú* [644], *kólo* [645]; Mogofin *kɔ́lɔ́* [645]; Kakabe *súgu* [644]; Kono *kúu* [645]; Vai *súú* [644]; Soso *san-si* [648]; Jalonke *sàn-sɩ̃́ɩ̃́* [648]; Jogo *súgú* [644], *dé* ("child") [647]; Jeri *dɩ́* ("child") [647], *sɩ́* [648]; Mende *húwú* [644]; Loko *káé*, *káái* [646]; Bandi *sùuwù* [644]; Looma *suwu* [644]; Kpelle-L *kɑ̄yā* (?) [646]; Kpelle-G *huɣu* [644]; Bokobaru *pɔ́* [640]; Boko *pɔ́* [640]; Busa *pɔ́* [640]; Lebir *yàá* [641]; San *nàn* [642]; Kyenga *bèe* [643]; Shanga *bùi* [643].

sit: Dan-G *yà* [655]; Dan-B *yâ* [655]; Dan-K *yà* [655]; Tura *yàà* [655]; Mano *yà* [655]; Guro *yɑ̱-nɑ́* [655]; Yaure *yɑ̱̀-nɑ̱̀* [655]; Gban *yɛ̃̀* [655]; Mwan *yā-là* [655]; Wan *yá* [655]; Beng *yrä* [655]; Kpeen *tògò* [656]; Kpan

tuu-ma [656]; Dzuun *ʦùù* [656]; Duun *to'o* [656]; Seenku *tùgù*, *tùgò* / *tūgū* [656]; Banka *tugu* [656]; Jo *sɔ́ɔ̀* [656]; Bobo *tàngà* [656]; Bozo-J *pɔ* [657]; Bozo-K *fɔɣɔ* [657]; Bozo-T *pay* [657]; Soninke *taaxu* [656]; Mau *sìì* [654]; Jula-K *sìgí* [654]; Dafing *sí* [654]; Bamana *sìgí* [654]; Maninka *sìi* [654]; Xasonka *sìgi* [654]; Mandinka *sìi* [654]; Koranko *sìgi*, *sìi* [654]; Lele *sìi* [654]; Mogofin *sìgí* [654]; Kakabe *sìgi* [654]; Kono *sìi* [654]; Vai *sìí* [654]; Soso *dɔ̀xɔ́* [656]; Jalonke *dɔ̀qɔ́* [656]; Jogo *yàgâ* [655]; Jeri *sàga* (?) [654]; Numu *yákɔ̀* [655]; Mende *hèí* [654]; Loko *hèí(ŋ)* [654]; Bandi *sèi* [654]; Looma *sei* [654]; Kpelle-L *sēē* [654]; Kpelle-G *he* [654]; Bokobaru *vɛ́ɛ́* [653]; Boko *zɔ́lé* [652]; Busa *vuté* [653]; Lebir *ɲìntá* [652]; San *giạ-tán* [652]; Kyenga *ɣaté* [652]; Shanga *zutɛɛ* [652].

skin: Dan-G *kwī* [658]; Dan-B *kwī* [658]; Dan-K *kpí* [658]; Tura *kwíì* [658]; Mano *kīī* [658]; Guro *kɔ́lé* [658]; Yaure *kɔ́lɛ* [658]; Gban *lòɛ́* [659]; Mwan *flé* [660]; Wan *klé* [658]; Beng *cī* [658]; Kpeen *fɛ̀rṵ̀ŋ̀* [660]; Kpan *sṵ* [664]; Dzuun *ʦùn* [664]; Duun *tunɔ* [664]; Seenku *ʦʉ̀n* [664]; Banka *tṵna* [664]; Jo *pɔ́lí* [660]; Bobo *kòn* [658]; Bozo-J *korọ* [658]; Bozo-K *kòròŋɔ́* [658]; Bozo-T *koron* [658]; Soninke *fàté* [663]; Mau *gbòò* [658]; Jula-K *gbòló* [658]; Dafing *góo* [658]; Bamana *gòló*, *wòló* [658]; Maninka *gbòló* [658]; Xasonka *gùlu* [658]; Mandinka *kùlu* [658]; Koranko *gbólo* [658]; Lele *kpòlé* [658]; Mogofin *bole* [658]; Kakabe *gbòlo* [658]; Kono *gbòo* [658]; Vai *kpò'ó* [658]; Soso *kírì* [658]; Jalonke *kírì* [658]; Jogo *kpòró* [658]; Jeri *kpùru* [658]; Numu *kpòrò* [658]; Mende *kɔ̀lɔ́* [658]; Loko *kɔ̂* [658]; Bandi *kɔ̀lɔ́(ŋ)* [658]; Looma *kɔlɔ* [658]; Kpelle-L *kɔlɔ̄* [658]; Kpelle-G *kɔlɔ* [658]; Bokobaru *báá* [662]; Boko *báá* [662]; Busa *bárá* [662]; Lebir *kyí* [658]; San *ki* [658]; Kyenga *sɛ* [661]; Shanga *sēé* [661].

sleep: Dan-G *yī* [665]; Dan-B *yī* [665]; Dan-K *yḭ̄* [665]; Tura *yí* [665]; Mano *yī*, *yí* [665]; Guro *yī* [665]; Yaure *yì* [665]; Gban *yì* [665]; Mwan *yī* [665]; Wan *yí* [665]; Beng *yī* [665]; Kpan *šii-ma* [665]; Dzuun *cìì* [665]; Duun *ca'ara* [665]; Seenku *kyìrè* [665]; Banka *xie* [665]; Jo *ɲi̋ǹi̋* [665]; Bobo *ɲì* [665]; Bozo-J *kumu* [666]; Bozo-K *kòmú* [666]; Bozo-T *kyemu* [666]; Soninke *xen-qo* [665]; Mau *sṵ̀nɔ́ɔ́* [665]; Jula-K *sìndɔ́gɔ́* [665]; Dafing *sộ* [665]; Bamana *sù-nɔ́gɔ* [665]; Maninka *sù-nɔ́ɔ*, *sì-nɔ́ɔ* [665]; Xasonka *sìnnoxo* [665]; Mandinka *sìinoo* [665]; Koranko *kìnoo*, *kindɔgɛ* [665]; Lele *kìnɔɔ* [665]; Mogofin *kùndɔ́gɔ*, *kìndɔ́gɔ* [665]; Kakabe *kìnɔ́gɔ* [665]; Kono *cìnɔ*, *ci* [665]; Vai *kǐ* [665]; Soso *xi* [665]; Jalonke *qìí* [665]; Jogo *ɲì-sá* [665]; Jeri *ŋ̀ìn-bà* [665]; Numu *ɲí-sá* [665]; Mende *njìǐ* [665]; Loko *njíí* [665]; Bandi *ɲìì* [665]; Looma *ɲíi* [665]; Kpelle-L *ɲīī* [665]; Kpelle-G *yi* [665]; Bokobaru *ɨ́í* [665]; Boko *ɣi* [665]; Busa *ɣi* [665]; Lebir *ɲín-tiim* [665]; San *ɲùu* [665]; Kyenga *ɣi* [665]; Shanga *i* [665].

small: Dan-G *sɛ̰̄ɛ̰́-nʌ́* [673]; Dan-B *séé*, *sɛ̰̄ɛ̰́* [673]; Dan-K *sɛ̰̄ɛ̰́-nʌ́* [673]; Tura *píĩ́-nɛ́* [667]; Mano *péétį́* [667]; Guro *fīīné* [667], *cènέ* (?) [688]; Gban *zlɔ̃̀ɔ̃̀* [669], *kpą̀* [670]; Mwan *fɛ̰̄ɛ́trɔ̰̀* [667]; Wan *wlɛ́ŋ* [671], *kplέŋ* [672]; Beng *kló* [681]; Kpeen *fúwé* [668]; Kpan *thyą̀ą̀ni* [688]; Dzuun *myέyn* [675], *ʤyɛn* [687], *kínàànìn* [688]; Duun *mi̱i̱* (?) [675], *deuma* [687], *kuumei* [689]; Seenku *mùēen* [675]; Banka *niiri* [685], *kpɛkpɛ'ɛ̨ni* [686]; Jo *pyą̀ą̀* [667]; Bobo *lóró* [683], *sáláló* [684]; Bozo-J *duọ* [682]; Bozo-K *lɔɣɔ* [682]; Bozo-T *muŋɔn* [675], *lɔn* [682]; Soninke *ròxé* [682]; Mau *mèsɛ̨̀* [675], *lɔ́ɔ́* [682]; Jula-K *fítínín* [667], *mèsén* [675], *dɔ́gɔ́* [682], *ncínį́* [688]; Dafing *mésɛ́ɛ̂* [675]; Bamana *fíti-nį* [667], *mìsɛ́* [675], *dɔ́ɔ* [682]; Maninka *mìsɛ́* [675], *dɔ́ɔ* [682]; Xasonka *mèse* [675], *dóxo* [682]; Mandinka *méseŋ* [675], *dóoyariŋ* [682]; Koranko *mɛ̨̀nsɛ̨* [675], *dóo*, *dɔ́gɔ* [682]; Lele *mèsɛ* [675], *dɔ́ɔ* [682]; Mogofin *mèsɛ́* [675]; Kakabe *dɔ́gɔ* [682]; Kono *dɔ́ɔ* [682]; Vai *mésémésé* [675], *dɔ̂ɔ̀* [682]; Soso *xurun* [681]; Jalonke *qúúrúń* [681]; Jogo *fyáán* [667], *dɔ́gɔ̀* [682]; Jeri *dɔ́gà* [682], *dìri* [683]; Numu *fìą̀ą̀* [667], *dèré* [683]; Mende *kúlò* [681]; Loko *kòlò(ŋ)* [681]; Bandi *kùlò* [681]; Looma *péné*, *pélɛvèlɛ(g)*, *pɛnɛ(g)* [667], *kolo* [681]; Kpelle-L *pèlɛ̀* [667], *kólò* [681]; Kpelle-G *pɛlɛ* [667], *kolo* [681]; Bokobaru *fété* [667], *néngó* [674]; Boko *fɛ́néná* [667], *néná* [674]; Busa *fíti* [667]; Lebir *pòórè*, *pwèérè* [667], *mí* [675]; San *bisin* [676], *boɛɛnɛ* [677], *boro* [678]; Kyenga *zi̱u* [679]; Shanga *mɔ̀gɔ̀ní* [680].

smoke: Dan-G *pɛ̄ŋ̄-tɛ́ɛ́* [692]; Dan-B *sɪ́ɪ́-tʌ́ʌ́* [692], *sį́ɔ́* (?) [693]; Dan-K *sɛ́-gbɛ́* [691]; Tura *gbɛ̰́ɛ́* [691]; Mano *gbɛ̰̄ɛ̰̃* [691]; Guro *cé-gwēí*, *gɔ̄í* [691]; Yaure *té-kwèí* [691]; Gban *gɛ̃́mɛ̃́* [691]; Mwan *té-gblɛ̰̀ɛ̰̀* [691]; Wan *gbą̀nɛ́* [691]; Beng *gbį́ą́* [691]; Kpan *sa-tui* [694]; Dzuun *sà-ʦúrú* [694]; Duun *sa-tu'u* [694]; Banka *sa-sula* [694]; Jo *cíkìlì* [696]; Bobo *tiōrō* [694]; Bozo-J *titi* [694]; Bozo-K *sìsí* (< Bamana?) [–2]; Bozo-T *piran* [695]; Soninke *tiidi* / *tìidé* [694]; Mau *sìsì* [693]; Jula-K *sìsí* [693]; Dafing *sísí* [693]; Bamana *sìsí* [693]; Maninka *sìsí* [693]; Xasonka *sìisi* [693]; Mandinka *sìisíi* [693]; Koranko *sìsi* [693]; Lele *sìsi* [693]; Mogofin *sísei̋* [693]; Kakabe *sìisi* [693]; Kono *sìsi* [693]; Vai *sìsí* [693]; Soso *turi* [694]; Jalonke *tùqùtí* [694]; Jogo *sìsí* [693]; Jeri *sìgí*, *sìgu*, *sùgu* [693]; Numu *sìsí* [693]; Mende *ndùlú* [694]; Loko *ndùrì* [694]; Bandi *ndùlì* [694]; Looma *duulu*, *duwulu* [694]; Kpelle-L *lūrī* [694]; Kpelle-G *lulu* [694]; Bokobaru *té-súkpé* [690]; Boko *súélé* [690]; Busa *té-súkpé* [690]; Lebir *sínga* [693]; San *tɛ-maa* [690]; Kyenga *tékpésé* [690]; Shanga *tɛsɔngi* [690].

stand: Dan-G *dɔ̄* [702]; Dan-B *dɔ̄* [702]; Dan-K *dɔ̄* [702]; Tura *dɔ́* [702]; Mano *dɔ̄* [702]; Guro *dɔ̄* [702]; Yaure *tɔ̃̄* [702]; Gban *dɔ̀* [702]; Mwan *dɔ̄* [702]; Wan *dì-nạ̀* [703]; Beng *dɔ̄* [702]; Seenku *tìgì* [1012]; Bobo *tà* [702]; Bozo-J *tàá* [702]; Bozo-T *táà* [702], *síǐ*, *kíǐ* [704]; Soninke *sigi* / *sikki* [704]; Mau *lɔ̀* [702]; Jula-K *lɔ̀*, *lwɔ̀* [702]; Dafing *lɔ́* [702]; Bamana *jɔ̌* [702]; Maninka *lɔ̌* [702]; Xasonka *lò* [702]; Mandinka *lòo* [702]; Koranko *sɔ̀*, *sò* [702]; Lele *sɔ̀* [702]; Mogofin *sɔ̌* [702]; Kakabe *lɔ́* [702]; Kono *sɔ̀* [702]; Vai *sɔ́* [702]; Soso *ti* [1012]; Jalonke *tìǐ*

[1012]; Jogo *yǒ(n)* [699], *jǒ(n)* [702]; Jeri *sɔ̀* [702]; Numu *yɔ́ŋ* / *yɔ́nè* [699], *dɔ́* / *dɔ́rè* [702]; Mende *tó* [702]; Loko *tò(ŋ)* [702]; Bandi *to*, *to(ŋ)* [702]; Looma *to(g)* [702]; Kpelle-L *tɔ̄ɔ̄* [702]; Kpelle-G *tɔ* [702]; Bokobaru *zɛ* [697]; Boko *zɛ* [697]; Busa *zɛ* [697]; Lebir *gyĭm* |*gìnɪ́*| [698]; San *yoo* [699]; Kyenga *kpɛtɛ́* [700]; Shanga *gɔ-ɔ* [701].

star: Dan-G *sűsu̱ŋ́* [705]; Dan-B *súsōŋ̄* [705]; Dan-K *fi̱ŋ́* ~ *fĭŋ́* [708]; Tura *méɛ̋ɛ̋* [709]; Mano *siéŋle* [705]; Guro *mɔ̄nɛ̄ gwɛ̄nén* [709]; Yaure *mènè cènè* [709]; Gban *nű-yu̱ná* [707]; Mwan *mlɛ̰-klɛ̄nɛ̄* [709]; Wan *péŋ̀péŋ̀* [706]; Beng *mɔ̄n-léŋ́* [709]; Kpeen *sòwú̱* [705]; Kpan *sɔ-ɔy* [705]; Dzuun *swéyn* [705]; Duun *kwo'o-dini* ("child of moon") [718]; Seenku *káallɛ* [718]; Banka *sɛsɛ̰-dina* [705]; Jo *sɔ̀rnɪ̀ŋ* [705]; Bobo *mùmúlù* [717]; Bozo-J *tonon* [716]; Bozo-K *twɛ̰̌* [716]; Bozo-T *tɔŋɔ* [716]; Soninke *saana* / *sàané* [705]; Mau *lòlò*, *lòò-dyèŋ* [715]; Jula-K *lòló* [715]; Dafing *lóló* [715]; Bamana *dòló*, *lòló* [715]; Maninka *lòló* [715]; Xasonka *lòolo* [715]; Mandinka *lòoloo* [715]; Koranko *lólo* [715]; Lele *tànbuyá*, *tánbura* [712]; Mogofin *lóolo* [715]; Kakabe *lòolo* [715]; Kono *tɔ́nboàká* [712]; Vai *tóómà* (?) [712]; Soso *tunbu* [712]; Jalonke *sàré* (?) [705]; Jogo *tétéŋkòlà* [714], *lòlón* [715]; Jeri *lòló* [715]; Numu *téténkólá* [714]; Mende *túnbékà* [712]; Loko *télégá* [712]; Bandi *tèmuleɣá* [712]; Looma *sɔmɔ deka* ("coal of a torch") [1010]; Kpelle-L *péméléŋ-kāō* [706]; Kpelle-G *peleŋ*, *pemeneŋ-gɔw* [706]; Bokobaru *sɔ̀sɔ̀né* [705]; Boko *saana* [705]; Busa *sùsùné* [705], *sura* [710]; San *leere* [711]; Kyenga *sɔlɔ̀* [710]; Shanga *sɔsɔɔnɪ́* [705].

stone: Dan-G *gwɑ̀* [719]; Dan-B *gûɾ̂* [719]; Dan-K *gùɾ̀* [719]; Tura *gwèè* [719]; Mano *gèlè* [719]; Guro *gɔ̄lɛ̄* [719]; Yaure *kɔ̀lɛ̀* [719]; Gban *gwà* [719]; Mwan *vlé* [719], *kpōtī* [721]; Wan *klé* [719], *kpótī* [721]; Beng *glɛ̄* [719]; Kpeen *kpɛ̀ɛ́* [719]; Kpan *kpai* [719]; Dzuun *kpáá* [719], *kóóná* [721]; Duun *kwa̱i̱-ni* [719]; Seenku *kùnùn* [721]; Banka *kpa'a-ra* [719]; Jo *kfɔ* [721]; Bobo *dībī* [729], *dɔ̄gɔ̀* [730]; Bozo-J *sire* [728]; Bozo-K *fárá-húrúŋɔ́* (< Bamana) [727]; Bozo-T *sere* [728]; Soninke *gidi̱*/*e* [719]; Mau *bɛ̀è* [725], *káwā* [726], *fáá* [727]; Jula-K *bèré* [725], *fárá* [727]; Dafing *béɛ* [725], *kàbà* [726]; Bamana *bèlé* [725], *kába* [726], *fára* [727]; Maninka *bèré* [725], *kába* [726]; Xasonka *bère* [725], *fàta* [727]; Mandinka *bère* [725]; Koranko *kùru* [720]; Lele *gbɛ́ré* [719], *kùru*, *kùyi* [720]; Mogofin *kùréì* (def.) [720]; Kakabe *kùru* [720]; Kono *sɛ̰̀* [724]; Vai *sɛ̃̌ŋ* [724]; Soso *gɛmɛ* [723]; Jalonke *gèmé* [723]; Jogo *kpìĭ́n* [721]; Jeri *kùngu* [722]; Numu *kpi̱ĭ́n* [721]; Mende *kɔ̀tŭ* [721]; Loko *kɔ̀tù* [721]; Bandi *kɔ̀tù*, *kɔ̀ti* [721]; Looma *kwɔ́tí*, *kwotu* [721]; Kpelle-L *kɔ̄nī* [721]; Kpelle-G *kwɛni* [721]; Bokobaru *gbè* [719]; Boko *gbɛ̄* [719]; Busa *gbè* [719]; Lebir *gyàa*, *dyàa* [719]; San *kɔlɔ* [720]; Kyenga *gbèlɛ* [719]; Shanga *gwèè* [719].

sun: Dan-G *yɑ́ŋ̀* [732]; Dan-B *lāŋ̄* [732]; Dan-K *yɛ̰̀ɛ̰̀* [732]; Tura *yɑ̰̀ɑ̰̀* [732]; Mano *yɛ́nɛ̰̄*, *ŋlɛ́* [732]; Guro *yīlí* [732]; Yaure *yì-dé* [732]; Gban *yè-vë*, *yè-ë* [732]; Mwan *yērē-té* [732]; Wan *yē-té* [732]; Beng *yī-gbíé* [732]; Kpeen *bɛ́ɛ̀* [740]; Kpan *boi* [740]; Dzuun *bwèy* [740]; Duun *boi̱* [740]; Seenku *sɔ́n-tá* ("sky fire") [737]; Banka *bi-ra* [740]; Jo *su̱ŋ*, *su̱n-ta* [737]; Bobo *sín ?* [736]; Bozo-J *kubu* [738]; Bozo-K *kwŏ* [738]; Bozo-T *kuu-jo* [738]; Soninke *kìyé* [739]; Mau *tèè* [735]; Jula-K *tèré* [735]; Dafing *tée* [735]; Bamana *tìlé* [735]; Maninka *tèlé* [735]; Xasonka *tìli* [735]; Mandinka *tìli* [735]; Koranko *tèle* [735]; Lele *tèle* [735]; Mogofin *tèlé* [735]; Kakabe *tèli* [735]; Kono *tèe* [735]; Vai *tè'é* [735]; Soso *soge* [736]; Jalonke *sógé* [736]; Jogo *télé* [735]; Jeri *tèlɛ*, *tèli* [735]; Numu *télé*, *tálé* [735]; Mende *fóló* [734]; Loko *fɔ̃* [734]; Bandi *fòló* [734]; Looma *folo* [734]; Kpelle-L *fólo* [734]; Kpelle-G *hvolo* [734]; Bokobaru *ɣɔfu̱tɛ̰́* [731]; Boko *ɣiu̱tɛ̰́* [731]; Busa *ɣifù̱* [731]; Lebir *wòsó*, *wùsó* [733]; San *wasa* [733]; Kyenga *ɣɔ́sɔ̀* [733]; Shanga *ísɔ-ɔ* [733].

swim: Dan-G *yi̋ kɑ̄* ("do water") [741]; Mwan *yì-kú̱* ("cut water") [741]; Wan *yí kɔ* ("cut water") [741], *tɪ́ŋ lɔ̀* [743]; Beng *dòŋ́* [742]; Kpan *nɔmu* [753]; Duun *mi̱ɛ̰-na* [753]; Seenku *nònnà* [753]; Banka *nɛnɛ* [753]; Jo *tɛrì* [757]; Bobo *jīnā* [756]; Bozo-J *nuu*, *ni̱i̱* [756]; Bozo-K *nu̱nu̱* [756]; Bozo-T *ji̱i̱* [756]; Soninke *banbe* [755], *xini* [756]; Jula-K *nɔ́mí* [753]; Bamana *néwu̱*, *nɔ́*, *nɔ́* [753]; Maninka *néwu̱*, *námu̱*, *náwu̱* [753]; Xasonka *nèwu* [753]; Mandinka *nóŋ*, *nóo*, *néwuŋ* [753]; Koranko *bá rá matègɛ* [752]; Lele *bá matɛɛ* (?) [752]; Mogofin *jei masa* (< Soso?) [750], *fúulè* [751]; Kono *nòé cé* [753]; Vai *jí bì'á* ("catch water") [754]; Soso *ye masa* [750]; Jalonke *sáfáá* [749]; Numu *bùán kyɔ́* ('swimming-do') [748]; Loko *ndɛmbu* [745]; Looma *dase(g)* (?) [744]; Kpelle-L *yá ŋá kélè* ("roam through water") [741]; Kpelle-G *ya kɛlɛ* [741]; Bokobaru *í kpá* [741], *dàdaá o* [744]; Boko *kpáa o* [741]; Busa *í kpá* [741]; Lebir *dá* [744], *pí zé* [746]; San *mu baa* [747]; Kyenga *ɣí kpá* [741]; Shanga *dɛ̀-i* [744].

tail: Dan-G *wēŋ̄* [760]; Dan-B *wēŋ̄*, *wɛ̰̄ɛ̰̄* [760]; Dan-K *wēŋ̄* [760]; Tura *wĭĭ* [760]; Mano *wɔ̰̄ù* [760]; Guro *wōlì* [760]; Yaure *wèi̋* [760]; Gban *wí* [760]; Mwan *wēē* [760]; Wan *wɛ̄ŋ* [760]; Beng *pínɑ́ŋ* [762]; Kpan *kpla* [760]; Dzuun *kplá* [760]; Duun *kura* [760]; Seenku *kúrà*, *kúrwà* [760]; Banka *kpla-na* [760]; Jo *jíŋ* [761]; Bobo *pēgē* [762]; Bozo-J *pi̱ɛ̰*, *pi̱ɔ* [762]; Bozo-K *hórí* [760]; Bozo-T *pisɛ* (?) [762]; Soninke *xoqqi* / *xóqqé* (?) [760]; Mau *kwó* [760]; Jula-K *kó*, *kwó* [760]; Dafing *kwò* [760]; Bamana *kú* [760]; Maninka *kó* [760]; Xasonka *xú* [760]; Mandinka *féne* [762]; Koranko *kú* [760], *fɔ̰́ɛ̰́* [762]; Lele *kɔ́ɔ* [760]; Mogofin *fɔ́nè* [762]; Kakabe *fɔ́nɔ* [762]; Kono *fɛ̋ɛ* [762]; Vai *fɛ́né* [762]; Soso *xúlí* [760]; Jalonke *qúlí* [760]; Jogo *já(n)* [761]; Jeri *jáŋ* [761]; Numu *gyàn* [761]; Mende *ngólí* [760]; Loko *ngó* [760]; Bandi *ngò(ŋ)* [760]; Looma *ŋɔ́(g)* [760]; Kpelle-L *wóŋ* [760]; Kpelle-G *woŋ* [760]; Bokobaru *vlɑ́ɑ́* [758]; Boko *vlɑ́* [758]; Busa *vlɑ́* [758]; Lebir *mŏm* |*mònɪ́*| [759]; San *mui* [759]; Kyenga *mɔnɔ* [759]; Shanga *bu̱u* [759].

that: Dan-G *ɓā* [764]; Dan-B *ɓɑ̄* [764]; Tura *lɑ́ɑ̀* [765]; Mano *e yía* [1009]; Guro *ɓɛ̄* [764]; Mwan *ɓē* [764], *lāālē* [765], *nū* [773]; Kpan *niɛ* [773]; Dzuun *nìì* [773]; Duun *nu̱dulu* [773]; Banka *nu̱-kɛrɛ* [773]; Jo *kàà* [771]; Bobo *yóö* [772]; Bozo-J *kwo̱* [771]; Bozo-T *ŋɔ* [770], *ku* [771]; Soninke *kén* [771]; Mau *ò* [770]; Jula-K *wò*, *ò* [770]; Dafing *wó* [770]; Bamana *wǒ*, *ǒ* [770]; Maninka *wǒ*, *ǒ* [770]; Xasonka *wò* [770]; Mandinka *wò* [770]; Koranko *wò* [770]; Lele *wo* [770]; Mogofin *wǒ* [770]; Kakabe *wɔ́* [770]; Kono *cɛ* [771]; Vai *mè* [769], *kè* [771]; Soso *ná* [766]; Jalonke *ná* [766]; Jeri *wo* [770]; Numu *má* [769]; Mende *ná* [766]; Loko *nà* [766]; Bandi *nà* [766]; Looma *na* [766]; Kpelle-L *tí*, *ɲí-tí* [767]; Kpelle-G *ti* [767]; Bokobaru *kèkɑ̨à* [763]; Boko *bee* [764]; Busa *dire* [768]; Lebir *bí* [764]; San *bé* [764].

this: Dan-G *yā*, *yɤ̄* [777]; Dan-B *nɛ̀* [778]; Tura *ɛ́* [778]; Mano *e kéa* [780]; Guro *kʋ́* [780], *ɓɛ̄* [764]; Mwan *léè* [778], *gè* [780]; Wan *kɛ̄* [780]; Beng *bì* [764]; Kpan *niɛ* [778]; Dzuun *nìì* [778]; Duun *nu̱* [778]; Seenku *lèɛ̀* [778]; Banka *fɔ* [781]; Jo *kàà* [780]; Bobo *béè* [764]; Bozo-T *ku* [780]; Soninke *kée* [780]; Mau *mi̱i̱ŋ* [779]; Jula-K *mìn* [779]; Dafing *mí* [779]; Bamana *nǐ* [778]; Maninka *nǐ*, *ɲǐ* [778], *mɛ̌* [779]; Xasonka *nìŋ*, *ɲìŋ*, *ɲìŋ* [778]; Mandinka *ɲìŋ* [778]; Koranko *kè*, *cè* [780]; Lele *kɛ*, *cɛ* [780]; Mogofin *kɛ* [780]; Kakabe *ké*, *cé* [780]; Kono *cɛ* [780]; Vai *kɛ̌* [780]; Soso *yí* [777]; Jalonke *jí* [777]; Jeri *mɛ* [779]; Numu *má* [779]; Mende *jí* [777]; Loko *ndí* [777]; Bandi *sí* [777]; Looma *ni* [777]; Kpelle-L *ɲí* [777]; Kpelle-G *yi* [777]; Bokobaru *bee* [764]; Boko *bee* [764]; Busa *di* [775]; Lebir *bí* [764], *nàndʋ́* [776]; San *bé* [764]; Kyenga *di* [775]; Shanga *ìdii* [775].

thou (**you** *sg.*): Dan-G *uu* [783], *ɓa*, *ɓɤ* [784]; Dan-B *uu* [783], *ɓa*, *ɓɤ* [784]; Dan-K *ɤ* [783], *ɓa* [784]; Tura *i*, *ya* [783], *ɓa* [784]; Mano *i* [783], *ɓa*, *ɓi*, *bi* [784]; Guro *i* [783], *ɓi* [784]; Yaure *i*, *yia* [783]; Gban *ɛɛ* [783], *be* [784], *ni* [786]; Mwan *é* [783], *ɓí* [784]; Wan *é* [783], *ɓí-lāā* [784], *lā* [785]; Beng *mi* [784]; Kpeen *wɔ̀* [788]; Kpan *wo* [788]; Dzuun *wo* [788]; Duun *va* [788]; Seenku *à* [787]; Banka *wɔ* [788]; Jo *ǹ* [782], *mì* [784]; Bobo *be* [784]; Bozo-J *a̱* [787]; Bozo-K *á* [787]; Bozo-T *an* [787]; Soninke *án* [787]; Mau *í* [783]; Jula-K *í* [783]; Dafing *èe* [783]; Bamana *í* [783]; Maninka *í* [783]; Xasonka *í* [783]; Mandinka *í* [783]; Koranko *í* [783]; Lele *í* [783]; Mogofin *í* [783]; Kakabe *í* [783]; Kono *í* [783]; Vai *í* [783]; Soso *í* [783]; Jalonke *í* [783]; Jogo *é* [783]; Jeri *í* [783]; Numu *é* [783]; Mende *bi* [784]; Loko *bi* [784]; Bandi *í* [783]; Looma *è*, *ì* [783]; Kpelle-L *é*, *í* [783]; Kpelle-G *é*, *í* [783]; Bokobaru *n* [782]; Boko *n* [782]; Busa *n* [782]; Lebir *ì*, *ìbí* [783]; San *ń* [782].

tongue: Dan-G *néɛ̀* [789]; Dan-B *nɛ̄* [789]; Dan-K *néɛ̀* [789]; Tura *né-ɛ́ɛ́* [789]; Mano *nānà* [789]; Guro *nɛ̄nɛ̄* [789]; Yaure *nènné* [789]; Gban *nɛ̈* [789]; Mwan *néné* ~ *nré* [789]; Wan *lēnḭ̄* (?) [789]; Beng *nɑ̀nɑ́ɲ́* [789]; Kpeen *nénǹ* [789]; Kpan *nɛ̨ɛ̨ẅ* [789]; Dzuun *nèyn* [789]; Duun *nɛ* [789]; Seenku *nèen* [789]; Banka *nɛɛna* [789]; Jo *náná-í*, *néné-í* [789]; Bobo *nìǫ́* [789]; Bozo-J *nɛɛrɛ* [789]; Bozo-K *nɛ̌ŋɔ̀* [789]; Bozo-T *myɛmu* [789]; Soninke *neeni* / *néené* [789]; Mau *nyɛ́ŋ* [789]; Jula-K *nèn* [789]; Dafing *nǐɛ̨̂* [789]; Bamana *nɛ̌*, *ně* [789]; Maninka *nɛ̌* [789]; Xasonka *nèŋ* [789]; Mandinka *néŋ* [789]; Koranko *némɛ* [789]; Lele *nèɛn* [789]; Mogofin *nén* [789]; Kakabe *nèn* [789]; Kono *nénén* [789]; Vai *nèɛ́* [789]; Soso *nén* [789]; Jalonke *nèń* [789]; Jogo *nèn-dé*, *lélê(n)* [789]; Jeri *nèn-dí* [789]; Numu *nén-dé* [789]; Mende *néɛ́* [789]; Loko *nè* [789]; Bandi *nèɛ̀(ŋ)* [789]; Looma *nɛ(g)* [789]; Kpelle-L *néŋ* [789]; Kpelle-G *nəŋ* [789]; Bokobaru *néné* [789]; Boko *lé-ná* [789]; Busa *néné* [789]; Lebir *nèɛ́m* |*nèèní*| [789]; San *lɛ-wɔn* [789]; Kyenga *néné* [789]; Shanga *léénì* [789].

tooth: Dan-G *sɔ̰̄* [791]; Dan-B *sɔ́* [791]; Dan-K *sɔ̃́* [791]; Tura *sɔ̰́* [791]; Mano *sɔ́* [791]; Guro *sɔ̃́* [791]; Yaure *sɔ́ɔ́* [791]; Gban *sɔ́* [791]; Mwan *sʋ́é* [791]; Wan *sʋé* [791]; Beng *sɛ̋* [791]; Kpeen *sɔ́* [791], *ɲín-dè* [793]; Kpan *sɔ̰̄ŋ̄* [791], *ɲi̱i̱* [793]; Dzuun *sɔ́* [791], *ɲín* [793]; Duun *ni* [793]; Seenku *dɛ̀n* [793]; Banka *ɲi̱na* [793]; Jo *ɲɪ́ɪ́nɑ́ɲ* [793]; Bobo *ɲínǐ* [793]; Bozo-J *ɲi* [793]; Bozo-K *ɲíɲɔ́* [793]; Bozo-T *ɲimin* [793]; Soninke *kàmbé* [795]; Mau *ɲɪ́ŋ* [793]; Jula-K *ɲín* [793]; Dafing *ɲìì* [793]; Bamana *ɲɪ́*, *ɲí* [793]; Maninka *ɲɪ́* [793]; Xasonka *ɲíŋ* [793]; Mandinka *ɲíŋ* [793]; Koranko *ɲɪ́ɪ́* [793]; Lele *ɲín* [793]; Mogofin *ɲɪ́* [793]; Kakabe *ɲín* [793]; Kono *ɲɪ́* [793]; Vai *ɲíŋ* [793]; Soso *ɲín* [793]; Jalonke *ɲíń* [793]; Jogo *ɲín* [793]; Jeri *ɲin-di* [793]; Numu *ɲìn* [793]; Mende *ngɔ́ngɔ́lù*, *ngɔ́ngɔ́ù* [794]; Loko *ngɔ́ngɔ́ú* [794]; Bandi *ndàa-ngɔ́lui* [794]; Looma *ɲi(g)*, *yɪ(g)* [793]; Kpelle-L *ɲíŋ* [793]; Kpelle-G *ɲi* [793]; Bokobaru *swáà* [792]; Boko *swaā* [792]; Busa *sákà* [792]; Lebir *sɔ́* [791]; San *sɔ́* [791]; Kyenga *sɔ̨* [791]; Shanga *sɔ̨́ɔ́* [791].

tree: Dan-G *dʋ́ʋ́* [800]; Dan-B *lú* [800]; Dan-K *lʋ́* [800]; Tura *yʋ́lʋ́* [800]; Mano *yílí* [800]; Guro *yílí* [800]; Yaure *yí-bā* [800]; Gban *yʋ́-kwì* (?) [800]; Mwan *ylì* / *ylí* [800]; Wan *ylɛ̄ɛ́* [800]; Beng *ylí* [800]; Kpeen *gɔ́ɔ̀-kʋ́* [801]; Kpan *gɔɔ-xu* [801]; Dzuun *jínin* [800], *gɔ̀ɔ̀-kú* [801]; Duun *gɔ-hu* [801]; Seenku *gʋ̋ɔ̄* [801]; Banka *gwɔ-kura* [801]; Jo *jírɪ́ŋ* [800]; Bobo *sɔ̄-nǫ́* [802]; Bozo-J *jugu* [800]; Bozo-K *jírí* [800]; Bozo-T *jiri* [800]; Soninke *yitti* / *yítté* [800]; Mau *yíɪ́ʹ*, *yírɪ́ʹ*, *yílɪ́ʹ*, *jɪ́ɪ́ʹ*, *jírɪ́ʹ*, *jílɪ́ʹ* [800]; Jula-K *yírí* [800]; Dafing *yìì* [800]; Bamana *jíri*, *yíri* [800]; Maninka *yíri* [800]; Xasonka *yíri* [800]; Mandinka *yíri* [800]; Koranko *kɔ̰̀* [797], *kɔ̀lɔmɑ̨* [798]; Lele *kɔ̨* [797], *kɔ̀lɔman* [798]; Mogofin *lɔ́gɔ* [802]; Kakabe *lɔ́gɔ* [802]; Kono *kɔ̰̀* [797]; Vai *kɔ̃ŋ* [797]; Soso *wúrí* [800]; Jalonke *wúrí* [800]; Jogo *gwá* [801]; Jeri *gbà* [801]; Numu *gòá* [801]; Mende *ngúlú* [800]; Loko *ngúru* [800]; Bandi *ngùlú* [800]; Looma *gúlu* [800]; Kpelle-L *wúru* [800]; Kpelle-G *ulu* [800]; Bokobaru *lí* [796]; Boko *lí* [796]; Busa *lí*, *nè* [796]; Lebir *gɔ̀*, *gɔ̰̀* [801]; San *da* [799]; Kyenga *ɣakɔ* [797]; Shanga *agu̱* [797].

two: Dan-G *plè*, *pèèdɑ̄* [803]; Dan-B *plè*, *pêedɑ̄* [803]; Dan-K *plê*, *pèèdà* [803]; Tura *pi̋ílé* [803]; Mano *pèèlɛ̄* [803]; Guro *fíé* [803]; Yaure *flí*, *fílḭ́* [803]; Gban *fɛ̨́ḭ́* [803]; Mwan *plɛ̄* [803]; Wan *pīlɔ̄ŋ̄* [803]; Beng *plāŋ̄* [803]; Kpeen *fígì* [803]; Kpan *fii* [803]; Dzuun *fíí* [803]; Duun *fi'ï* [803]; Seenku *fḭ́* [803]; Banka *figi* [803]; Jo *fúúlì* [803]; Bobo *pālā* [803]; Bozo-J *pende* [803]; Bozo-K *fyenu* [803]; Bozo-T *pende* [803]; Soninke *fìlló* [803]; Mau *fyàà* [803]; Jula-K *fìlá*, *fùlá* [803]; Dafing *flà* [803]; Bamana *fìlá* [803]; Maninka *fìlá* [803]; Xasonka *fùla* [803]; Mandinka *fùla* [803]; Koranko *fèla* [803]; Lele *fɛ̀la* [803]; Mogofin *fìlá* [803]; Kakabe *fìla* [803]; Kono *fèa* [803]; Vai *fè'á* [803]; Soso *fìrín* [803]; Jalonke *fìdíń* [803]; Jogo *fàlá* [803]; Jeri *fàla* [803]; Numu *fìlà*, *fàlà* [803]; Mende *fèlé* [803]; Loko *fele* [803]; Bandi *fɛ́le* [803]; Looma *fele* [803]; Kpelle-L *fēerē* [803]; Kpelle-G *hvile* [803]; Bokobaru *pláa* [803]; Boko *pla* [803]; Busa *pla* [803]; Lebir *pḭ́iya* [803]; San *pāā* [803]; Kyenga *fia* [803]; Shanga *hwaa* [803].

walk: Dan-G *tā́* [804]; Dan-B *tá* [804]; Dan-K *tā́* [804]; Tura *tā́ā́* [804]; Mano *tàá* [804]; Guro *táá* [804]; Yaure *tɑ́* [804]; Gban *tā́* [804]; Mwan *táá* [804]; Wan *tá* [804]; Beng *tá* [804]; Kpeen *jìgì* [809]; Kpan *jii* [809]; Dzuun *jìì* [809]; Duun *ji'ï-ra* [809]; Seenku *ká* [1013]; Banka *jɛgɛ* [809]; Jo *tírḭ́* [808]; Bobo *yā* [810]; Bozo-J *ɲi* [809]; Bozo-K *ɲiŋi* [809]; Bozo-T *ɲiŋi* [809]; Soninke *tere* [808]; Mau *táá*, *táámɑ́* [804]; Jula-K *tágá*, *tágámá* [804]; Dafing *tà* [804], *wɑ̀* [807]; Bamana *tága*, *táa*, *tágama*, *táama* [804]; Maninka *táa*, *táama* [804], *wă* [807]; Xasonka *táxa*, *táxama* [804]; Mandinka *táa* [804]; Koranko *tá*, *táa* [804]; Lele *táa* [804]; Mogofin *tága* [804]; Kakabe *táa*, *tága* [804]; Kono *tá* [804]; Vai *táá* [804]; Soso *sìgá* [805]; Jalonke *sìgá* [805]; Jogo *tágámá* [804]; Jeri *tága* [804]; Numu *tàgámà* [804]; Mende *njìá* [805]; Loko *sía* [805], *mbɛɛ(ŋ)* [806]; Bandi *sìà(ŋ)* [805]; Looma *sìé*, *sìé(g)* [805]; Kpelle-L *sī̀a* [805]; Kpelle-G *hie* [805]; Bokobaru *tá* [804]; Boko *tá* [804]; Busa *tá* [804]; Lebir *tá* [804]; San *tɔ* [804]; Kyenga *tá* [804]; Shanga *tá* [804].

warm: Dan-G *wɔ̋sùù* [814]; Dan-B *wózʌ̀* [814], *sḭ́ɤ̂* [815]; Dan-K *wɔ̋sùù* [814]; Tura *zőlő* [816]; Mano *gágà*, *gákà*, *gáà* [817]; Guro *cé* [818]; Yaure *kálágálá* [824]; Gban *fóá* [813]; Mwan *té-lɛ̄* [818]; Wan *té* [818]; Beng *bàtû* [819], *pápá* [820], *wlùwlù* [821]; Kpeen *táá-má* [826]; Kpan *wɔɔnta* [829]; Dzuun *wɔ̀ʠùùntá* [829]; Duun *wata* [829]; Banka *fi̧tɛ-na* [813]; Jo *mɑ̀fwùù* [830]; Bobo *tóbá* [826]; Bozo-J *pyɛɛ* [828]; Bozo-K *gulɛna* [827]; Bozo-T *gula* [827]; Soninke *táwú*, *tayi*, *taye* [826]; Mau *gbɛ̨̀ɛ̨̀ŋ* [825]; Jula-K *gbàn* [825]; Dafing *gwɑ́* [825]; Bamana *kálɑ* [824], *gɑ̆* [825]; Maninka *kálaman* [824], *gbɑ̆* [825]; Xasonka *xàndi* [825]; Mandinka *kàndi* [825]; Koranko *kála-ma* [824]; Lele *kálama* [824]; Mogofin *bàndi-rɛ̨́* [825]; Kakabe *gbándin-den* [825]; Kono *gbandi* [825]; Vai *kpàndì* [825]; Soso *fúrá* [813]; Jalonke *fúrá* [813]; Jogo *dɛ̆* [822]; Jeri *dèɛ*, *dìɛ* [822]; Numu *dɔ́* / *dèré* [822]; Mende *fúlà* [813]; Loko *fura* [813]; Bandi *fùlá* [813]; Looma *fila*, *fíle* [813]; Kpelle-L *wúleŋ* [823]; Kpelle-G *hvúló* [813]; Bokobaru *lɔ́gɔ́lɔ́gɔ́* [811]; Boko *lɔ̀ɔ̀lɔ̀ɔ̄* [811]; Busa *lɔ́gɔlɔgɔ* [811]; Lebir *yéé* [812]; San *fuu* [813]; Kyenga *fula* [813].

water: Dan-G *yḭ́* [831]; Dan-B *yí* [831]; Dan-K *yḭ́* [831]; Tura *yḭ́* [831]; Mano *yíí* [831]; Guro *yí* [831]; Yaure *yí* [831]; Gban *yḭ́* [831]; Mwan *yì* [831]; Wan *yí* [831]; Beng *yí* [831]; Kpeen *jó* [831]; Kpan *žo* [831]; Dzuun *yú* [831]; Duun *žo* [831]; Seenku *jó* [831]; Banka *žo* [831]; Jo *jú* [831]; Bobo *ziō* / *zō* [831]; Bozo-J *ji* [831]; Bozo-K *jú* [831]; Bozo-T *jíi* [831]; Soninke *jí* [831]; Mau *jḭ́*, *yḭ́* [831]; Jula-K *jí*, *jyé* [831]; Dafing *zìé* [831]; Bamana *jí* [831]; Maninka *jí* [831]; Xasonka *jí* [831]; Mandinka *jíi* [831]; Koranko *yí* [831]; Lele *yíi* [831]; Mogofin *jéì*, *géì* [831]; Kakabe *jíi* [831]; Kono *yíi* [831]; Vai *jí* [831]; Soso *yéé* [831]; Jalonke *jéé* [831]; Jogo *yí* [831]; Jeri *yí* [831]; Numu *yí* [831]; Mende *njă* [831]; Loko *njă* [831]; Bandi *ɲjà* [831]; Looma *zìé*, *zìɛ́* [831]; Kpelle-L *yá* [831]; Kpelle-G *ya* [831]; Bokobaru *í* [831]; Boko *í* [831]; Busa *í* [831]; Lebir *pí* [832]; San *mu* [833]; Kyenga *'í* [831]; Shanga *'íí* [831].

we: Dan-G *kwa* (incl.) [837], *yi* (excl.) [844]; Dan-B *kwa* (incl.) [837], *yi* (excl.) [844]; Dan-K *kwa* (incl.) [837], *yi* (excl.) [844]; Tura *ko* [836]; Mano *kɔ* (excl.) [836], *kɔa* (incl.) [837]; Guro *kv* (excl.) [836], *kaa* (incl.) [837]; Yaure *kv* (excl.) [836], *kaa* (incl.) [837]; Gban *u* [834]; Mwan *ó* (excl.) [834], *kɔ̀ɔ́* (incl.) [836]; Wan *kɑ̨* (excl.) [836], *ka* (incl.) [837]; Beng *ɑ̨ŋ* [843]; Kpeen *mò* [835]; Kpan *ɲe* [844]; Dzuun *mùn* [835], *ɲe* [844]; Duun *ɲiɛ* [844]; Seenku *wí* [835]; Banka *ɲɛ* [844]; Jo *yì* [844]; Bobo *mɛ* (excl.) [835], *ke* (incl.) [838]; Bozo-J *ke* [838]; Bozo-K *ngí* [838]; Bozo-T *ki* [838]; Soninke *ó* [834]; Mau *ɑ́ŋ* [843]; Jula-K *ɑ́* [843]; Dafing *ɑ̀* [843]; Bamana *ɑ́* [843]; Maninka *ǹ* [842], *ɑ́* [843]; Xasonka *ǹ* [842]; Mandinka *ǹ* [842]; Koranko *mà* [835]; Lele *mà* [835], *ǹ* [842]; Mogofin *mɔ́ɔ* [835]; Kakabe *má* [835]; Kono *mɔ́* (incl.) [835]; Vai *mú* [835]; Soso *mùxú* (excl.) [840], *wŏn* (incl.) [841]; Jalonke *nxo* [840], *on* [841]; Jogo *á* [839]; Jeri *à* [839]; Numu *á* [839]; Mende *mú* [835]; Loko *mú* (incl.) [835]; Bandi *mú* (incl.) [835]; Looma *gé* (excl.) [838]; Kpelle-L *kú* (excl.) [836]; Kpelle-G *kú* (excl.) [836]; Bokobaru *wa* [834]; Boko *wa* [834]; Busa *o* [834]; Lebir *ò*, *wɔ́* [834]; San *wɔ* [834]; Kyenga *wa* [834]; Shanga *wà* [834].

what: Dan-G *mɛ̃ɛ̃̀* [849]; Dan-B *mʌ̂* [849]; Dan-K *mʌ̀*, *mlʌ̀* [849]; Tura *mèè* [849]; Mano *kō* [850]; Guro *mɛ̃ɛ̀* [849]; Gban *bé* (?) [849]; Mwan *mè* [849]; Wan *mɛ̨̄* [849]; Beng *pɔ́* [845]; Kpan *fee* [851]; Dzuun *fée* [851]; Duun *fɔɛ* [851]; Seenku *kùrè* [854]; Banka *fɔ* [851]; Jo *vɛ̨̀* [851]; Bobo *ŋwɔ̀nōn* [853]; Bozo-J *mwɑ* [849]; Bozo-K *mànà* [849]; Bozo-T *man* [849]; Soninke *mànḭ́* [849]; Mau *mḭ̀ŋ* [849]; Jula-K *mùn*, *mìnḭ́* [849]; Dafing *mú* [849]; Bamana *mɑ̀* [849]; Maninka *mɑ̀* [849]; Xasonka *mùŋ* [849]; Mandinka *mùŋ* [849]; Koranko *nfɛ́*

[851]; Lele *fé-se* [851]; Mogofin *fén-dè* [851]; Kakabe *nùmande* [852]; Kono *fɛ́* [851]; Vai *mé* [851]; Soso *mun* [849]; Jalonke *nèń* [848]; Jogo *mû* [849]; Jeri *mi* [849]; Numu *mɛ̀n* [849]; Mende *gbê* [847]; Loko *gbɛɛ* [847]; Bandi *bèɛ* [847], *ndè* [848]; Looma *à bè* [847]; Kpelle-L *gbéɛ̀* [847], *lé* [848]; Kpelle-G *le* [848]; Bokobaru *bɔ́* [845]; Boko *bɔ́* [845]; Busa *bɔ́* [845]; Lebir *wàa* [846]; San *bɔ́* [845]; Kyenga *bɔ́* [845]; Shanga *bu* [845].

white: Dan-G *pűű* [855]; Dan-B *púú* [855]; Dan-K *pűű* [855]; Tura *pűű* [855]; Mano *púlú* [855]; Guro *fúú* [855]; Yaure *fṹ-vṹ* [855]; Gban *βűtù* [855]; Mwan *pú* 1 [855]; Wan *pú* 1 [855]; Beng *púú* [855]; Kpeen *kpɛ́* [856]; Kpan *ϕẅɛɛy* [855]; Dzuun *fyé* [855]; Duun *fìɔ-ma* [855]; Seenku *kàn* (?) [856]; Banka *xuɛ* [856]; Jo *fɔ́* [855]; Bobo *furu* [855]; Bozo-J *kuǫ* [856]; Bozo-K *hoona* [856]; Bozo-T *xon* [856]; Soninke *xulli* / *xúllé* [856]; Mau *gbé* [856]; Jula-K *gbé* [856]; Dafing *kwì* [856]; Bamana *jé* [856]; Maninka *gbé* [856]; Xasonka *xóyi* [856]; Mandinka *kóyi* [856]; Koranko *gbé* [856]; Lele *gbé* [856]; Mogofin *bée* [856]; Kakabe *gbé* [856]; Kono *gbé* [856]; Vai *kpé* [856]; Soso *fikhɛ* (?) [855]; Jalonke *fííqè* (?) [855]; Jogo *kpé* [856]; Jeri *kpɛ* [856]; Numu *kpé* [856]; Mende *kòlé* [856]; Loko *kùè* [856]; Bandi *kòlè* [856]; Looma *kwéle(g)* [856]; Kpelle-L *kōlē* [856]; Kpelle-G *kwele* [856]; Bokobaru *pú-ra* [855]; Boko *pú-a* [855]; Busa *pú-rā*, *pú-lā* [855]; Lebir *fú* |*fù*ˊ| [855]; San *fu* [855]; Kyenga *fu* [855]; Shanga *húú* [855].

who: Dan-G *dē* [857]; Dan-B *dɜ̄* [857]; Dan-K *dè* [857]; Tura *wáá* [858]; Mano *dɛ̄i̱* [857]; Guro *dǐ* [857]; Yaure *tì* [857]; Gban *dɛ́* [857]; Mwan *dè-lè*, *dè-là* [857]; Wan *dè*, *dèè* [857]; Beng *dé* [857]; Kpan *sii* [857]; Dzuun *dɛ̀ì* [857]; Duun *si* [857]; Seenku *të* [857]; Banka *ši* [857]; Jo *nkɛ̨ŋ* [868]; Bobo *kɔ̌* [864]; Bozo-J *wura* [865], *gira* [866]; Bozo-K *jă* [861]; Bozo-T *gwa* [867]; Soninke *kóo* [864]; Mau *yéŋ*, *jéŋ* [861]; Jula-K *jɔ́ɔn* [861]; Dafing *zòn* [861]; Bamana *jǫ́* [861]; Maninka *jǫ̀* [861]; Xasonka *jóŋ* [861]; Mandinka *jóŋ* [861]; Koranko *yǫ́*, *yǫ́* [861]; Lele *yɔ́n* [861]; Mogofin *ɲɔ̀-mɔ* [861]; Kakabe *yɔ́n* [861]; Kono *ɲǫ́* [861]; Vai *jɔ̂*, *jɔ́* [861]; Soso *ǹdé* [857]; Jalonke *ǹdé* [857]; Jogo *mă* [863]; Jeri *ma* [863]; Numu *máà* [863]; Mende *yɔ̀ɔ́* [861]; Loko *e* [862]; Bandi *e-le* [862]; Looma *bɛɛ* [860]; Kpelle-L *gbéɛ̀* [860]; Kpelle-G *gbɛ* [860]; Bokobaru *dé* [857]; Boko *dé* [857]; Busa *dí* [857]; San *die* [857]; Kyenga *dí* [857]; Shanga *yí* [859].

woman: Dan-G *dɛ̃-bɜ̀* [869]; Dan-B *dɛ̃-bɔ̂* [869]; Dan-K *dɛ̀* [869]; Tura *dɛ̀* [869]; Mano *lɛ̄ɛ̄* [869]; Guro *lɛ̄* [869]; Yaure *lì-mɔ̀* [869]; Gban *lè* [869]; Mwan *lɛ̄* [869]; Wan *lɛ̄* [869]; Beng *lɛ̄ŋ̄* [869]; Kpeen *táà* [873]; Kpan *tɑ̨ɑ̨* [873]; Dzuun *tàán* [873]; Duun *tɑ̨ɑ̨* [873]; Seenku *mínḭ́* (?) [869]; Banka *tɑ̨ɑ̨* [873]; Jo *màrè* (?) [869]; Bobo *yà* [870]; Bozo-J *jugǫ* [870]; Bozo-K *ɲáŋànú* [870]; Bozo-T *yá-lò* [870]; Soninke *yà-xàri* [870]; Mau *mòsò* [872]; Jula-K *mùsó* [872]; Dafing *mósó* [872]; Bamana *mùsó* [872]; Maninka *mùsó*, *mòsó* [872]; Xasonka *mùsu* [872]; Mandinka *mùsu* [872]; Koranko *mùsu* [872]; Lele *mùsu*, *mùso* [872]; Mogofin *mùsú* [872]; Kakabe *mùsu* [872]; Kono *mùsu* [872]; Vai *mùsú* [872]; Soso *gìnɛ́* [871]; Jalonke *gìnɛ́* [871]; Jogo *ɲâ* [870]; Jeri *ɲá* [870]; Numu *ɲá* [870]; Mende *ɲà-hâ* [870]; Loko *ɲà-hâ* [870]; Bandi *ɲà-há* [870]; Looma *ŋa-za* [870]; Kpelle-L *nēnî*, *nɛ́ì̱* [869]; Kpelle-G *nenu* [869]; Bokobaru *nɔ-gbɛ́* [869]; Boko *nɔ* [869]; Busa *nɔ* [869]; Lebir *lṵ́* |*lṵ*ˊ| [869]; San *lɔ* [869]; Kyenga *nɛ-gbí̱* [869]; Shanga *nénènì* [869].

yellow: Dan-B *sóŋ̀gòzɜ̀*, *vḭ́ávḭ̀ɜ̀* [875]; Dan-K *gùɛ̃ɣḭ̈́ḭ̈́dɜ̀yàà* [876]; Tura *zàìnlê* [877]; Mano *zóló* [573]; Guro *kân* [878]; Gban *βűàà* [879]; Beng *dálé* [881]; Kpan *nɛfaama* [886]; Dzuun *nééfámá* [886]; Duun *nefama* [886]; Banka *nɛrɛfarama* [886]; Jo *nɑ́fɑ̨́nɑ́mɑ́ŋ* [886]; Bozo-J *nàlòndúú* (“powder of nere”) [886]; Bozo-T *náálúúmɜ̀ɜ̀* [886]; Soninke *boobo* [890], *makkajinma* (“juice of corn”) [891], *puuru* [892]; Mau *nɛ̀ɛ̀mṵ̀ṵ̀làmɑ́ŋ* [886]; Jula-K *nèrèmùgùràmán*, *nèrèmùgùtḭ́gḭ́* [886]; Dafing *néémúúmá* [886]; Bamana *nèrɛmuguláma* [886]; Maninka *nèrɛmuuláma* [886]; Xasonka *nètemunguma* [886]; Mandinka *nètemunku* [886]; Koranko *nɛrɛmunkulamɛ* [886]; Lele *nèɛmuulamá* [886]; Mogofin *nètɛkutalama* [886]; Kono *mɔin denɛ* [889]; Vai *suŋa* (Koelle) [887], *waaŋ* [888]; Jogo *yèrfògó* (“nere flour”) [886]; Numu *yḭ́ré fùkò* (“nere flour”) [886]; Bandi *báhḭ́* [884]; Looma *kpazi* (‘corn’) [1009]; Kpelle-L *gbēlēŋɔ́ì* [885]; Kpelle-G *ɓahi* [884]; Bokobaru *kpà'ḭ́kpà'ḭ́* [874]; Boko *kpà'ḭ́* [874]; Busa *tɛ̨ra* [881]; Lebir *kárŋ́ísi* [882]; San *kùsi* [883]; Shanga *kwɑ̀'ḭ́* [874].

Резюме

В семье манде (макросемья нигер-конго) достаточно однозначно выделяются группы небольшой глубины родства; основные споры ведутся по поводу промежуточных ступеней внутренней классификации. В статье предлагается новый вариант такой классификации, впервые выполненный на основании обсчёта полного 100-словного списка М. Сводеша. Данные глоттохронологии сопоставляются с данными палеоклиматологии и археологии, делается предположение, что территория обитания людей, говоривших на праязыке семьи манде во второй половине IV тысячелетия до н. э., локализуется в Южной Сахаре, между 3° и 12° западной долготы и к северу от 16° или даже 18° северной широты. Это предположение подтверждает и анализ культурной лексики, предположительно реконструируемой для праманде.

Insert 1. Cognate percentage chart for Mande languages, generated by STARLing

Languages	DNG	DNB	DNK	TUR	MNO	GUR	YRE	GBA	MWA	WAN	BEN	KPE	KPA	DZU	DUN	SEK	BNK	JOO	BBO	BZJ	BZK	BZT	SON	MAU	JLK	DFN	BMN	MNK	XSN	MDK	KRN	LLE	MGF	KKB	KNO	VAI	SSO	JLN	JGO	JRI	NMU	MEN	LKO	BND	LOM	KPL	KPG	BKB	BOK	BUS	LBR	SAN	KYN	SHN
DNG	**0**	0,93	0,9	0,77	0,75	0,72	0,74	0,63	0,72	0,6	0,62	0,35	0,4	0,42	0,35	0,38	0,37	0,42	0,36	0,24	0,27	0,26	0,29	0,36	0,38	0,36	0,35	0,36	0,36	0,34	0,34	0,34	0,34	0,34	0,29	0,28	0,37	0,34	0,36	0,36	0,35	0,34	0,33	0,35	0,34	0,37	0,36	0,42	0,43	0,42	0,51	0,5	0,52	0,45
DNB	0,88	**0**	0,88	0,74	0,74	0,69	0,74	0,62	0,71	0,62	0,64	0,35	0,43	0,43	0,37	0,42	0,37	0,39	0,35	0,25	0,27	0,26	0,3	0,36	0,38	0,37	0,38	0,38	0,38	0,36	0,35	0,34	0,34	0,33	0,32	0,29	0,33	0,31	0,38	0,36	0,37	0,35	0,34	0,37	0,35	0,39	0,36	0,4	0,42	0,4	0,52	0,49	0,5	0,44
DNK	1,03	1,15	**0**	0,8	0,73	0,72	0,76	0,63	0,69	0,64	0,62	0,31	0,37	0,38	0,33	0,4	0,34	0,38	0,37	0,23	0,25	0,27	0,27	0,36	0,38	0,36	0,36	0,36	0,36	0,34	0,34	0,34	0,33	0,34	0,29	0,28	0,34	0,31	0,38	0,36	0,38	0,34	0,32	0,36	0,36	0,37	0,37	0,41	0,41	0,41	0,49	0,47	0,49	0,44
TUR	1,75	1,85	1,59	**0**	0,73	0,74	0,78	0,64	0,76	0,67	0,67	0,33	0,38	0,39	0,33	0,41	0,33	0,39	0,36	0,22	0,26	0,26	0,27	0,38	0,39	0,38	0,4	0,39	0,39	0,36	0,36	0,36	0,35	0,35	0,31	0,29	0,32	0,32	0,36	0,34	0,35	0,33	0,29	0,32	0,35	0,35	0,36	0,42	0,43	0,44	0,51	0,47	0,51	0,44
MNO	1,82	1,88	1,92	1,93	**0**	0,76	0,77	0,64	0,72	0,65	0,6	0,32	0,39	0,39	0,35	0,45	0,36	0,39	0,37	0,25	0,27	0,27	0,3	0,36	0,37	0,37	0,38	0,37	0,37	0,34	0,36	0,37	0,38	0,34	0,34	0,33	0,34	0,35	0,39	0,35	0,39	0,3	0,29	0,3	0,33	0,37	0,37	0,48	0,49	0,46	0,47	0,45	0,49	0,45
GUR	1,95	2,09	1,95	1,85	1,77	**0**	0,87	0,63	0,8	0,72	0,66	0,31	0,38	0,39	0,33	0,39	0,33	0,39	0,36	0,24	0,25	0,26	0,26	0,34	0,37	0,36	0,37	0,36	0,36	0,33	0,34	0,35	0,36	0,34	0,31	0,3	0,33	0,31	0,38	0,32	0,36	0,31	0,29	0,3	0,33	0,34	0,34	0,43	0,45	0,43	0,47	0,48	0,46	0,42
YRE	1,86	1,86	1,78	1,7	1,72	1,25	**0**	0,62	0,81	0,69	0,67	0,34	0,41	0,41	0,37	0,44	0,38	0,39	0,34	0,25	0,27	0,26	0,28	0,38	0,39	0,4	0,4	0,4	0,39	0,36	0,38	0,39	0,38	0,38	0,36	0,33	0,34	0,34	0,38	0,36	0,37	0,33	0,32	0,34	0,33	0,36	0,35	0,47	0,48	0,47	0,51	0,51	0,52	0,48
GBA	2,41	2,47	2,4	2,36	2,36	2,41	2,46	**0**	0,64	0,57	0,58	0,3	0,36	0,37	0,31	0,36	0,31	0,32	0,33	0,23	0,24	0,26	0,25	0,32	0,33	0,33	0,34	0,34	0,34	0,34	0,3	0,34	0,34	0,31	0,29	0,27	0,33	0,29	0,34	0,33	0,33	0,33	0,3	0,33	0,34	0,33	0,33	0,39	0,39	0,39	0,47	0,46	0,44	0,4
MWA	1,98	2	2,11	1,8	1,98	1,59	1,54	2,36	**0**	0,74	0,61	0,35	0,39	0,41	0,35	0,43	0,35	0,41	0,33	0,21	0,25	0,24	0,28	0,35	0,36	0,35	0,37	0,37	0,37	0,34	0,34	0,33	0,34	0,33	0,31	0,28	0,32	0,32	0,36	0,31	0,33	0,29	0,28	0,31	0,31	0,35	0,35	0,47	0,51	0,48	0,52	0,54	0,55	0,49
WAN	2,56	2,47	2,37	2,21	2,32	1,95	2,14	2,75	1,88	**0**	0,56	0,26	0,32	0,34	0,28	0,4	0,28	0,35	0,31	0,2	0,25	0,24	0,24	0,34	0,35	0,36	0,35	0,35	0,35	0,31	0,33	0,33	0,33	0,33	0,3	0,29	0,29	0,28	0,38	0,33	0,36	0,31	0,27	0,3	0,32	0,36	0,35	0,42	0,44	0,42	0,44	0,45	0,45	0,41
BEN	2,45	2,37	2,48	2,21	2,54	2,26	2,19	2,7	2,5	2,78	**0**	0,35	0,39	0,39	0,34	0,37	0,35	0,36	0,36	0,27	0,29	0,28	0,29	0,35	0,35	0,34	0,37	0,35	0,34	0,35	0,33	0,33	0,34	0,32	0,34	0,29	0,27	0,28	0,31	0,31	0,29	0,3	0,29	0,29	0,28	0,31	0,29	0,4	0,42	0,42	0,48	0,47	0,48	0,41
KPE	4,24	4,24	4,59	4,36	4,45	4,63	4,32	4,73	4,24	5,09	4,24	**0**	0,82	0,85	0,78	0,54	0,77	0,49	0,38	0,29	0,32	0,29	0,32	0,43	0,43	0,42	0,43	0,43	0,43	0,42	0,43	0,4	0,41	0,44	0,36	0,35	0,35	0,36	0,38	0,38	0,34	0,29	0,25	0,29	0,25	0,26	0,26	0,24	0,25	0,24	0,27	0,26	0,21	0,23
KPA	3,79	3,61	4,05	4	3,89	3,95	3,74	4,16	3,9	4,49	3,92	1,48	**0**	0,97	0,91	0,6	0,89	0,42	0,38	0,28	0,31	0,24	0,34	0,36	0,38	0,37	0,4	0,4	0,39	0,38	0,33	0,33	0,32	0,32	0,32	0,27	0,3	0,31	0,33	0,3	0,28	0,27	0,24	0,25	0,25	0,27	0,26	0,28	0,3	0,28	0,31	0,32	0,26	0,28
DZU	3,65	3,58	3,93	3,89	3,86	3,92	3,7	4,04	3,76	4,33	3,86	1,34	0,57	**0**	0,89	0,64	0,88	0,46	0,39	0,29	0,31	0,27	0,36	0,4	0,41	0,41	0,45	0,44	0,43	0,42	0,39	0,39	0,37	0,35	0,34	0,32	0,33	0,34	0,36	0,32	0,3	0,32	0,27	0,3	0,28	0,29	0,29	0,28	0,31	0,28	0,32	0,34	0,26	0,29
DUN	4,24	4,02	4,36	4,4	4,23	4,43	4,03	4,62	4,18	4,86	4,3	1,69	1,02	1,08	**0**	0,58	0,84	0,39	0,34	0,28	0,28	0,25	0,29	0,35	0,37	0,37	0,39	0,39	0,39	0,36	0,33	0,33	0,33	0,31	0,29	0,28	0,29	0,3	0,31	0,28	0,26	0,23	0,22	0,24	0,22	0,24	0,23	0,23	0,25	0,23	0,28	0,27	0,22	0,23
SEK	3,93	3,63	3,79	3,72	3,45	3,9	3,55	4,14	3,59	3,84	4,03	2,9	2,59	2,37	2,66	**0**	0,56	0,46	0,43	0,32	0,3	0,33	0,4	0,46	0,47	0,46	0,49	0,5	0,5	0,48	0,45	0,44	0,42	0,44	0,43	0,38	0,38	0,39	0,47	0,41	0,39	0,37	0,34	0,35	0,33	0,37	0,36	0,31	0,33	0,3	0,3	0,35	0,28	0,26
BNK	4,08	4,05	4,29	4,43	4,12	4,36	3,95	4,55	4,2	4,91	4,23	1,7	1,09	1,16	1,39	2,81	**0**	0,39	0,35	0,28	0,3	0,26	0,35	0,37	0,39	0,38	0,4	0,4	0,39	0,37	0,35	0,35	0,34	0,36	0,33	0,3	0,3	0,3	0,34	0,3	0,28	0,24	0,23	0,25	0,24	0,25	0,26	0,26	0,28	0,26	0,28	0,3	0,24	0,25
JOO	3,64	3,92	3,96	3,92	3,89	3,87	3,91	4,47	3,75	4,21	4,09	3,22	3,67	3,39	3,92	3,36	3,86	**0**	0,41	0,29	0,34	0,34	0,4	0,4	0,39	0,37	0,4	0,4	0,4	0,4	0,41	0,41	0,41	0,41	0,39	0,36	0,34	0,35	0,41	0,38	0,37	0,28	0,27	0,26	0,28	0,3	0,3	0,3	0,29	0,3	0,28	0,29	0,24	0,26
BBO	4,12	4,18	4,05	4,09	4,01	4,12	4,26	4,36	4,43	4,59	4,09	4	4	3,86	4,33	3,59	4,23	3,76	**0**	0,42	0,36	0,38	0,37	0,4	0,38	0,37	0,39	0,4	0,4	0,41	0,41	0,39	0,43	0,44	0,4	0,37	0,39	0,39	0,4	0,39	0,38	0,37	0,33	0,37	0,37	0,35	0,35	0,27	0,29	0,26	0,29	0,29	0,26	0,25
BZJ	5,33	5,3	5,48	5,73	5,23	5,44	5,3	5,56	5,77	6,07	5,04	4,78	4,89	4,82	4,94	4,51	4,88	4,78	3,68	**0**	0,74	0,81	0,5	0,45	0,44	0,43	0,46	0,46	0,46	0,45	0,42	0,39	0,39	0,44	0,38	0,38	0,31	0,3	0,36	0,37	0,32	0,28	0,25	0,3	0,31	0,29	0,29	0,18	0,18	0,15	0,2	0,2	0,16	0,17
BZK	5	4,96	5,3	5,09	5,01	5,23	5,05	5,45	5,27	5,27	4,76	4,45	4,61	4,54	4,89	4,64	4,7	4,3	4,16	1,88	**0**	0,84	0,53	0,51	0,52	0,49	0,51	0,5	0,51	0,47	0,46	0,43	0,41	0,44	0,41	0,41	0,29	0,3	0,4	0,39	0,34	0,28	0,26	0,3	0,29	0,27	0,26	0,22	0,23	0,21	0,23	0,2	0,2	0,19
BZT	5,11	5,2	5,07	5,2	5	5,11	5,16	5,13	5,4	5,36	4,96	4,78	5,33	5,01	5,27	4,43	5,2	4,33	3,98	1,55	1,39	**0**	0,52	0,44	0,44	0,45	0,45	0,45	0,45	0,45	0,45	0,46	0,46	0,44	0,48	0,41	0,42	0,29	0,28	0,39	0,41	0,33	0,28	0,25	0,3	0,32	0,3	0,3	0,19	0,19	0,18	0,21	0,18	0,17	0,17
SON	4,76	4,73	5,07	5,08	4,64	5,11	4,89	5,27	4,9	5,36	4,84	4,49	4,33	4,09	4,78	3,84	4,2	3,82	4,06	3,13	2,94	3,01	**0**	0,41	0,42	0,41	0,43	0,44	0,43	0,44	0,42	0,43	0,38	0,41	0,39	0,37	0,32	0,31	0,36	0,38	0,3	0,28	0,26	0,29	0,28	0,28	0,28	0,25	0,26	0,24	0,24	0,22	0,22	0,23
MAU	4,09	4,09	4,14	4	4,16	4,3	3,97	4,47	4,21	4,27	4,24	3,58	4,14	3,77	4,17	3,36	4,05	3,81	3,84	3,43	3,1	3,5	3,71	**0**	0,94	0,96	0,96	0,98	0,94	0,88	0,84	0,76	0,77	0,82	0,7	0,64	0,47	0,48	0,57	0,62	0,51	0,37	0,32	0,37	0,36	0,34	0,34	0,23	0,24	0,23	0,29	0,28	0,22	0,24
JLK	3,98	3,95	3,99	3,87	4,01	4,06	3,91	4,4	4,1	4,24	4,21	3,58	3,95	3,73	4,06	3,35	3,91	3,87	3,98	3,5	3,03	3,49	3,63	0,81	**0**	0,97	0,95	0,97	0,95	0,89	0,8	0,74	0,73	0,8	0,67	0,63	0,46	0,46	0,57	0,63	0,53	0,36	0,33	0,38	0,37	0,35	0,35	0,24	0,26	0,24	0,29	0,3	0,23	0,25
DFN	4,14	4,06	4,1	3,97	4,04	4,09	3,84	4,43	4,18	4,14	4,3	3,64	4,02	3,74	4,05	3,4	3,93	4,02	4,06	3,62	3,2	3,46	3,76	0,66	0,57	**0**	0,95	0,98	0,95	0,89	0,82	0,74	0,76	0,79	0,7	0,67	0,46	0,47	0,56	0,62	0,54	0,37	0,33	0,38	0,37	0,36	0,35	0,24	0,25	0,24	0,3	0,3	0,24	0,26
BMN	4,18	3,98	4,11	3,82	3,96	4,01	3,77	4,33	4,04	4,18	4,06	3,58	3,82	3,46	3,92	3,2	3,77	3,82	3,9	3,39	3,07	3,45	3,59	0,66	0,73	0,74	**0**	0,97	0,96	0,89	0,83	0,75	0,75	0,82	0,68	0,64	0,45	0,47	0,58	0,6	0,51	0,37	0,32	0,38	0,38	0,36	0,36	0,24	0,25	0,24	0,29	0,3	0,22	0,24
MNK	4,1	3,98	4,11	3,9	4,05	4,1	3,77	4,33	4,04	4,18	4,24	3,58	3,82	3,54	3,92	3,13	3,77	3,82	3,82	3,39	3,13	3,45	3,52	0,46	0,56	0,46	0,56	**0**	0,98	0,92	0,86	0,79	0,77	0,84	0,72	0,67	0,47	0,49	0,58	0,63	0,52	0,37	0,33	0,38	0,37	0,35	0,35	0,24	0,25	0,24	0,3	0,31	0,23	0,26
XSN	4,1	3,98	4,11	3,9	4,05	4,1	3,86	4,33	4,04	4,18	4,33	3,58	3,9	3,61	3,92	3,13	3,86	3,82	3,82	3,39	3,07	3,45	3,59	0,81	0,73	0,74	0,65	0,45	**0**	0,91	0,81	0,75	0,75	0,82	0,69	0,64	0,46	0,47	0,57	0,61	0,5	0,37	0,33	0,38	0,37	0,35	0,35	0,24	0,25	0,24	0,3	0,31	0,23	0,26
MDK	4,27	4,15	4,3	4,15	4,33	4,36	4,13	4,33	4,3	4,56	4,24	3,68	3,98	3,68	4,09	3,28	4,02	3,82	3,75	3,46	3,34	3,45	3,52	1,19	1,12	1,14	1,11	0,93	0,99	**0**	0,82	0,78	0,82	0,82	0,74	0,69	0,41	0,42	0,58	0,59	0,5	0,36	0,33	0,37	0,35	0,34	0,34	0,23	0,24	0,23	0,3	0,3	0,22	0,24
KRN	4,27	4,24	4,3	4,15	4,14	4,27	3,95	4,64	4,3	4,36	4,43	3,58	4,43	3,92	4,36	3,43	4,2	3,75	3,75	3,67	3,41	3,38	3,66	1,4	1,59	1,47	1,43	1,28	1,53	1,48	**0**	0,91	0,88	0,9	0,82	0,77	0,45	0,46	0,57	0,59	0,51	0,36	0,32	0,37	0,34	0,33	0,33	0,21	0,23	0,21	0,29	0,29	0,22	0,24
LLE	4,27	4,33	4,3	4,15	4,05	4,18	3,86	4,33	4,39	4,36	4,43	3,79	4,43	3,92	4,36	3,51	4,2	3,75	3,9	3,9	3,55	3,38	3,59	1,76	1,88	1,87	1,82	1,63	1,82	1,68	0,99	**0**	0,85	0,84	0,83	0,79	0,43	0,41	0,54	0,55	0,47	0,37	0,32	0,37	0,34	0,33	0,34	0,22	0,23	0,22	0,29	0,28	0,22	0,27
MGF	4,33	4,3	4,36	4,21	3,93	4,15	4	4,3	4,27	4,43	4,3	3,74	4,49	4,06	4,43	3,67	4,26	3,71	3,57	3,87	3,76	3,49	3,93	1,72	1,9	1,78	1,83	1,74	1,83	1,49	1,17	1,34	**0**	0,88	0,8	0,78	0,42	0,41	0,55	0,56	0,49	0,34	0,3	0,33	0,33	0,34	0,34	0,22	0,24	0,22	0,29	0,29	0,22	0,25
KKB	4,33	4,43	4,3	4,24	4,3	4,27	3,93	4,54	4,36	4,43	4,5	3,54	4,5	4,17	4,57	3,51	4,16	3,7	3,54	3,54	3,5	3,26	3,76	1,48	1,57	1,64	1,47	1,36	1,47	1,47	1,08	1,36	1,14	**0**	0,78	0,76	0,45	0,44	0,57	0,6	0,5	0,37	0,33	0,39	0,37	0,35	0,36	0,23	0,24	0,23	0,28	0,29	0,21	0,26
KNO	4,76	4,52	4,82	4,63	4,33	4,56	4,13	4,76	4,59	4,66	4,33	4,12	4,52	4,27	4,78	3,59	4,4	3,9	3,82	3,98	3,71	3,73	3,88	2,06	2,23	2,07	2,16	1,97	2,11	1,87	1,48	1,43	1,59	1,67	**0**	0,88	0,41	0,41	0,53	0,52	0,49	0,34	0,32	0,35	0,31	0,33	0,31	0,22	0,24	0,22	0,28	0,27	0,22	0,26
VAI	4,96	4,81	4,91	4,81	4,4	4,73	4,4	4,96	4,87	4,84	4,81	4,24	5,04	4,53	4,86	3,93	4,68	4,12	4,06	3,95	3,76	3,63	4,01	2,37	2,43	2,23	2,38	2,23	2,38	2,13	1,74	1,64	1,7	1,77	1,17	**0**	0,4	0,39	0,54	0,53	0,51	0,34	0,29	0,35	0,32	0,33	0,33	0,19	0,21	0,19	0,27	0,24	0,21	0,26
SSO	4,06	4,39	4,26	4,49	4,3	4,43	4,33	4,43	4,46	4,84	5,04	4,19	4,7	4,43	4,74	3,99	4,68	4,3	3,87	4,59	4,76	4,76	4,46	3,33	3,39	3,36	3,42	3,29	3,35	3,7	3,42	3,56	3,67	3,43	3,7	3,82	**0**	0,93	0,43	0,44	0,42	0,49	0,47	0,51	0,47	0,45	0,48	0,21	0,21	0,19	0,23	0,27	0,22	0,2
JLN	4,33	4,6	4,58	4,5	4,19	4,63	4,33	4,77	4,46	4,86	4,94	4,15	4,6	4,33	4,64	3,92	4,64	4,2	3,89	4,71	4,65	4,89	4,56	3,26	3,39	3,33	3,33	3,19	3,33	3,68	3,39	3,76	3,73	3,51	3,76	3,92	0,89	**0**	0,44	0,45	0,42	0,48	0,45	0,51	0,48	0,46	0,49	0,22	0,23	0,2	0,24	0,27	0,24	0,22
JGO	4,1	3,93	3,98	4,1	3,91	3,96	3,95	4,29	4,14	3,96	4,61	3,94	4,36	4,13	4,62	3,33	4,33	3,72	3,81	4,1	3,84	3,87	4,14	2,75	2,72	2,77	2,7	2,7	2,75	2,7	2,75	2,88	2,84	2,75	2,94	2,9	3,6	3,5	**0**	0,84	0,93	0,42	0,38	0,43	0,41	0,44	0,45	0,24	0,25	0,22	0,28	0,29	0,23	0,24
JRI	4,14	4,14	4,1	4,33	4,23	4,46	4,16	4,36	4,56	4,43	4,6	3,96	4,71	4,5	4,91	3,72	4,72	3,94	3,86	4,02	3,86	3,76	4	2,48	2,4	2,45	2,55	2,44	2,49	2,6	2,6	2,83	2,77	2,56	3,01	2,97	3,5	3,48	1,37	**0**	0,8	0,4	0,38	0,41	0,4	0,41	0,41	0,22	0,23	0,2	0,27	0,3	0,23	0,24
NMU	4,18	4,06	3,96	4,24	3,89	4,14	4,03	4,43	4,36	4,14	4,74	4,28	4,94	4,64	5,13	3,92	4,93	4,02	3,94	4,53	4,26	4,36	4,67	3,1	2,97	2,88	3,07	3,01	3,13	3,13	3,07	3,33	3,16	3,13	3,19	3,1	3,65	3,63	0,85	1,56	**0**	0,37	0,35	0,38	0,36	0,41	0,41	0,23	0,24	0,21	0,27	0,27	0,23	0,23
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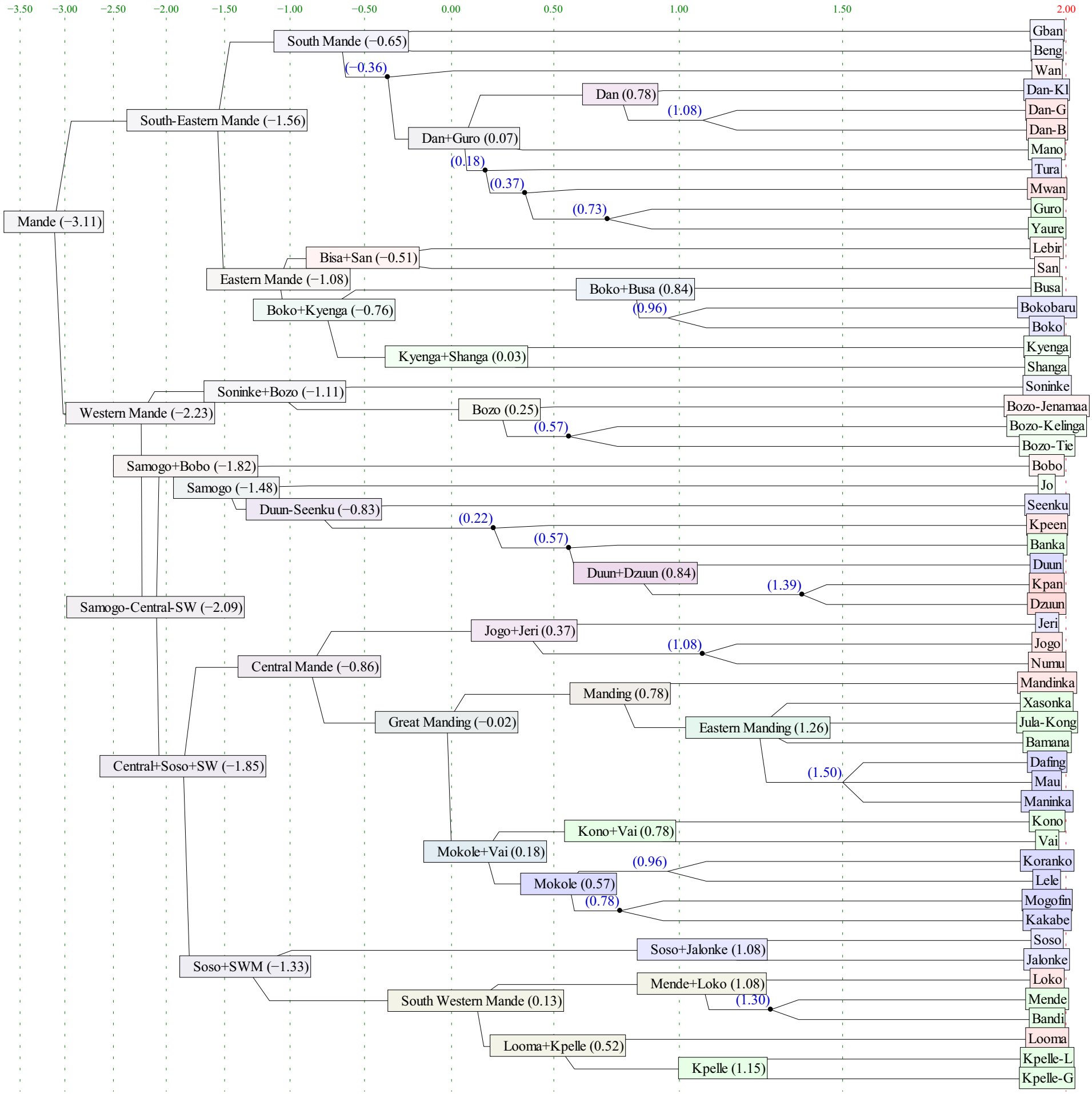
LKO	4,43	4,3	4,47	4,84	4,75	4,84	4,47	4,7	4,88	4,96	4,84	5,27	5,34	4,99	5,74	4,33	5,54	5,06	4,4	5,23	5,09	5,27	5,13	4,47	4,43	4,36	4,53	4,43	4,43	4,43	4,53	4,53	4,64	4,43	4,53	4,76	3,34	3,45	3,95	3,98	4,23	0,77	**0**	0,93	0,79	0,79	0,75	0,2	0,21	0,17	0,2	0,19	0,22	0,19
BND	4,17	4,08	4,13	4,46	4,7	4,68	4,33	4,43	4,57	4,64	4,76	4,75	5,23	4,69	5,45	4,18	5,23	5,09	4,01	4,64	4,74	4,68	4,79	4,01	3,96	3,93	3,99	3,99	3,99	4,08	4,08	4,08	4,36	3,89	4,17	4,23	3,1	3,06	3,59	3,71	3,98	0,68	0,85	**0**	0,87	0,81	0,81	0,19	0,2	0,17	0,21	0,21	0,21	0,2
LOM	4,27	4,24	4,11	4,24	4,43	4,43	4,43	4,33	4,56	4,52	4,96	5,27	5,3	4,86	5,67	4,43	5,44	4,92	4,03	4,63	4,76	4,46	4,87	4,09	4,06	4,06	3,93	4,01	4,01	4,18	4,27	4,27	4,43	4,06	4,56	4,52	3,32	3,23	3,76	3,81	4,09	1,37	1,61	1,22	**0**	0,84	0,84	0,22	0,22	0,19	0,22	0,19	0,19	0,2
KPL	4,01	3,9	4,02	4,24	4,05	4,33	4,13	4,43	4,18	4,15	4,63	5,09	5,04	4,74	5,37	4,03	5,3	4,7	4,21	4,84	5	4,66	4,87	4,27	4,24	4,14	4,1	4,18	4,18	4,27	4,36	4,36	4,33	4,24	4,36	4,43	3,46	3,36	3,52	3,73	3,76	1,53	1,61	1,55	1,39	**0**	0,94	0,23	0,25	0,2	0,24	0,2	0,22	0,21
KPG	4,1	4,15	4,02	4,15	4,05	4,33	4,23	4,43	4,18	4,24	4,84	5,09	5,17	4,74	5,51	4,12	5,16	4,7	4,21	4,84	5,13	4,66	4,87	4,27	4,24	4,24	4,1	4,18	4,18	4,27	4,36	4,27	4,33	4,14	4,56	4,43	3,26	3,16	3,45	3,73	3,76	1,68	1,82	1,55	1,39	0,8	**0**	0,23	0,25	0,2	0,23	0,21	0,22	0,2
BKB	3,63	3,82	3,7	3,67	3,27	3,6	3,31	3,87	3,29	3,67	3,82	5,45	4,92	4,86	5,51	4,55	5,16	4,7	5,04	6,29	5,72	6,14	5,23	5,55	5,33	5,37	5,36	5,36	5,36	5,5	5,8	5,65	5,62	5,51	5,65	6,1

Insert 2. Cognate percentage chart for Mande languages, generated by STARLing