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KAMCHUKCHEAN AS A MEMBER OF EURASIAN (NARROW-NOSTRATIC) FAMILY
(based on the Kamchukchean reconstruction by O. Mudrak)

A. Pronouns.

A.1. PChuk. **amto* 'what, how (are you), how (it is) (interrog. adv., parenth.); hello (male)' [CHUKET 1838]

The 1st part: PAlt. **mV* interrog. root [EDAL: 958; ALTET 1379] | PUr. **mV* 'what; thing' [UEW: 296; URALET 588] / **mi* ~ **m̄i* [Sammallahti 1981] | PIH. **me-* interrog. pron. [Friedrich: 132, 135; Adams: 451; PIET 2963] | PKart. **ma-* 'what; which' [КЛИМОВ 1964: 124; KARTET 664; EWK: 226 f.; Klimov 1998: 112] / (KZ.) **mu*, (Svan) **maj* [KARTET₂ 664] < PEurAs. ***mV* 'what' interrog. pron. [ОСНЯ 1: 9; 2: N^o300; ND: N^o1355; Bomhard 1994: N^o524; NOSTRET 1437].

The 2nd part: to PEurAs. ***t'V* 'this, that', q.v.

A.2. PKCh. **-ɬl-y^wo-na* 'he; himself' (PChuk. **ɬllona* pers. pron. 3rd p. 'he, she'; PKam. **-ly^win*, **ti-l(y^w)un* refl. pron. 'self') [Мудрак 2000: 80 f.; КАМЕТ 691]

The 1st part: PTurk. **lo*, **-l* 'this' | PEsk. **ət-ɣa*, **ət-ɣi-r* < **ət-ɣa*, **ət-ɣi-r* 'he, she, it (3rd p. sg.); they (3rd p. pl.)' pers. pron. [CED: 108; ESQET 1324; Мудрак 2011: 245] | PIE. **el-*, **ol-* demon. pron. [WP I: 84 f.; PIET 3078] < PEurAs. ***?VIV*, ***IV* demon. pron. [NIODET 1005; Мудрак 2011: 245; Krougly-Encke 2023: N^oA.86e];

the 2nd part is etymologically equal to PKCh. **ɬwá-[j-]* (~ **y^w-á-*) 'that' and **y^wú-t-* 'this; here', q.v.'

the 3rd part, maybe to PKCh. **ɬno* pers. pron. 3 sg. 'he, she, it', q.v.

A.3. PKCh. **ɬno* pers. pron. 3 sg. 'he, she, it' (PChuk. **ɬnno*, **ən-* 'he, she, it'; PKam. **ina*, **in'a*, **ina-* 'he, she, it') [Мудрак 2000: 33; КАМЕТ 631; Fortescue 2005: 342 f.]

| PMong. **e-ne* demon. pron. [MONGET 93, sub ALTET 406] | PEsk. **-ɣa*, **-ɣi-r* < **-ɣa*, **-ɣi-r*, cf. supra | PDr. **ēnai* 'other; the rest' [DED₂: N^o919; SDRET 807] | PIE. **en-*, **on-* demon. pron. 'that; (an)other' [WP II: 336 f.; Pokorny: 319 ff.; Tischler: 29 f., 106 f.; PIET 3076] < PEurAs. ***?VnV*, ***-nV* deict. part. [ND: N^oN^o775, 807, 808; NOSTRET 1298].

A.4. PKCh. **əθhə*, **əθyə* pers. pron. 'they' (PChuk. **əš*, **əšyə* 'they'; PKam. **ith*, **txi-*, **ti-l'un* (~ *-l'-*) 'they') [Мудрак 2000: 30; КАМЕТ 636; Fortescue 2005: 338; Мудрак 2008: 76 c.]

| PUr. **ce* ~ **ci* 'this, that, such, he' [UEW: 33 f.; URALET 60] | PAlt. **č'a* 'that, beyond, not

very far' (Mong. **ča-* 'that, beyond'; PTung. **čā-* 'that, further (not very far)'; PKor. **čə* 'this') [EDAL: 406; ALTET 255] < PEurAs. ***cV(HV)* (~ *č-*, *č̣-*, *č̣'-*) 'this' [ND: N^oN^o284, 375; PIET 1238].

A.5. PKCh. **γə'nə*, **γəmi-* 'thou' 2nd p. sg. pron. (PChuk. **γəš*, **γən(nə)* 'you'; PKam. **kizə*, **kəp- 'in* 'you') [Мудрак 2000: 40; KAMET 520; Fortescue 2005: 142 f.; Мудрак 2008: 108]
The 1st part is etymologically identical to PKCh. **γьмо*, **γəmi-* 'I', q.v.;
the 2nd one is etymologically enigmatic.

A.6. PKCh. **γьмо*, **γəmi-* 'I' 1st sg. pers. pron. [Мудрак 2000: 39; KAMET 517; Мудрак 2008: 94] (also SKam. *ma* 'me'), **-m-* v; Fortescue 2005: 146 f. bal subj. imper. marker

The 1st part is cognate with PTurk. **-k* marker of 1st p. pl. in some tenses | PKart. **gw-* 'we, us' 1st p. pl. incl. pron. | PSl. **-ego*, **-ogo* marker of gen. / acc. of pers. pron. < PEurAs. ***gwV* exponent of 1st and 2nd p. of pers. pron. [ND: N^o19; NOSTRET 1192] is ←b PNCauc. **zō* (obl. **ʔez(V)*) 'I' [NCED: 1084 f.; CAUCET 2283];

▲ On my opinion, PIE. **eg'(h)ō(-m)* 'I' 1st p. sg. pron. (nom.) [WP I: 115 f.; Pokorny: 291; Adams: 265; PIET 2956] (+ Hitt. *uk*, *ug(g)a* 'ich' [Friedrich: 232]).

the 2nd part is cognate to PAlt. **bi* (obl. **mi-ne-*) 'I', **ba* (emend. by O. Mudrak to **b(u)E*) (obl. **miu-n-*) 'we' [EDAL: 341 f.; ALTET 126], cf. **-m* 1st p. sg. poss. marker, **-m* 1st p. sg. vbal subj. marker | PYup. **-m-* 'I (1st p. sg. pers. pron.); we (1st p. pl.)' [YUPET 1030; Мудрак 2011: 894], PEsk. **-m=* 1st sg., du., pl. subj. marker (for 2nd p. obj. marker in subj.-obj. conjug.), **vi* sg., **va(j)-* pl. 'I (1st sg.), we (1st pl.)' pers. pron. [CED: 383; Fortescue 1998: 53; ESQET 608; Мудрак 2011: 827 f.]; PAl. **[t]-uma-* 1st p. pl. pron. [AD: 397] | PUr. **mE* 'I' [UEW: 294; URALET 583], PUr. **mE* 'we' [UEW: 294; URALET 584; Janhunen 1977: 91], cf. **-m* 1st p. sg. vbal subj. suff., **-me-k*, *-j (/ -j-)* 1st p. pl. vbal subj. suff. | PYuk. **me-t* (~ *-ö-*) 'I' [Nikolaeva 2006: N^o1221; JUKAET 63], cf. **-m* 1st p. sg. poss. marker, **-m* 1st p. sg. vbal subj. interrog. marker, **mi-t* ~ **mi-δ* (~ *-ö-*) 'we' [Nikolaeva 2006: N^o1238; JUKAET 1052] | PIE. **(e)me* (obl. **mene*) 'I' [WP II: 236; Pokorny: 702; PIET 2986], **me-* 'we' [Fraenkel: 441; PIET 3162], cf. **-m*, **-mi* 1st p. sg. act. / transit. / ergat. vbal obj. marker | PKart. **men* / **mi* (obl. **men-*) 'I' [Климов 1964: 132; EWK: 233 f.; KARTET 693; Klimov 1998: 119], cf. **-m-* 1st p. sg. / pl. vbal obj. marker < PEurAs. **(H)mi* ~ **(H)me* 'I', **(H)ma* (obl. **(H)mu-*?) 'we' (incl.) [FUV: 34 f.; Долгопольский 1964: 1 с.; ОСНЯ 1: 6; 2: N^oN^o289, 299; ND: N^oN^o1354, 1354a, 1354b; NOSTRET 1436; Bomhard 1964: N^o540; Greenberg 2000: N^o1; UEW: 294; Nikolaeva 2006: N^o1238; Blažek 2007: N^oN^o37, 42; Мудрак 2011: 894, 827; Krougly-Encke 2023: N^oA.95a].

A.7. PKCh. **fi^wä-[j-]* (~ **γ^wä-*) 'that' (PChuk. **γəz-* 'that (near); now'; PKam. **xeje*, **xij-* 'that, there') [Мудрак 2000: 213 (Chuk.); KAMET 148; Fortescue 2005: 322 (Chuk.)]

The 1st part is cognate to PAlt. **ō* 'this, that (deictic particle)' [EDAL: 1040; ALTET 1554] | PEsk. **u-*, **u-a* demon. 'this near; here it is', **ta-wa-* prefixed pron., adv., predic. [CED: 385,

480; ESQET 708; Мудрак 2011: 768]; PAI. **u-ka* demon. 'in here' [AD: 426-428], **u-ma* demon. 'here, now (invisible: heard, felt, or smelled); back here (as behind my back, or on the other side of the island)' [AD: 438], ? **u-ǵa* demon. 'here (extended), along here, around here; now, nowadays' (if not < **ma-ǵa*, reshaped after **u-ka*, **u-ma*), **wa-* demon. 'here, now (close to the speaker, or to a principle character in a story)', **wa(ja)* deict. 'right now, look, here (is), this is' [AD: 459 f.] | PUr. **o* ~ **u* 'that' [UEW: 332; URALET 664] | PYuk. **ween* '(an)other' [Nikolaeva 2006: N°2607; JUKAET 896] | PDr. **ū-* 'that (intermediate)' [DED₂: N°557; DRAVET 1676] | PIE. **aw-*, **we-* (PIH. **u-*) 'that' demon. pron., conj. [WP I: 187 f., 189 f.; Pokorny: 1103; PIET 3048] (cf. **u-*, **u-d*, **u-g'h*, **u-s* 'out; over' [WP I: 189 f.; PIET 3049]) | PKart. **u-* 'to / for him, her' obl. obj. pref. (3rd p. benef.) | PKCh. **y^wu-[t-]* 'this; here' [Мудрак 2000: 47; KAMET 335; Fortescue 2005: 199; Мудрак 2008: 54] (comp. with PEurAs. ***t^v* 'this, that'), | El. (m.) *hu*, (n.) *hi*, (Ach.) *hi*, *hu*, (o., m., n., Ach.) *i* 'this' (contam.?) < PEurAs. ***?o* ~ ***?u(wV)*, ***wV* 'that (not so far, approaching)' [ND: N°754; NOSTRET 1294; NIODET 1431; Мудрак 2011: 768].

The 2nd part, to PAlt. **i* a deictic root [EDAL: 577; ALTET 582] | PUr. **e* (~ **i*) 'this' [UEW: 67 f.; URALET 126] | PDr. **i-* 'this' [DED₂: N°410; DRAVET 433] | PIH. **i-*, **ey-*, **yo-* demon. / relat. pron. 'that, which' [WP I: 95 ff.; Pokorny: 281 ff.; PIET 3065] | PKart. **hi* 'that' demon. pron. / deictic stem (distal) [EWK: 577; KARTET 476] / **i-* [Климов 1964: 99; Klimov 1998: 80], **i* marker of nom. | El. (m.) *hu*, (n.) *hi*, (Ach.) *hi*, *hu*, (o., m., n., Ach.) *i* 'this' (contam.?) < PEurAs. ***?i* (***hi*) 'this' [ОЧНЯ 1: N°134; Bomhard 1994: N°444; ND: N°N°754, 2618; NOSTRET 1293; Starostin in pr.: N°46].

A.8. PKCh. **y^wu-t-* 'this; here' (PChuk. **yut* 'this (near)'; PKam. **y^wut-*, **(x^wu)te^wfi-ank* 'this') [Мудрак 2000: 47; KAMET 335; Мудрак 2008: 54; Fortescue 2005: 199]

The 1st part is etymologically equal to the preceding;

The 2nd part, to PAlt. **t'a* (**t'e*) 'that' [EDAL: 1389; ALTET 2286] | PEsk. **tar(u)-*, **tam-* 'this, right here' [CED: 323 f., 480; ESQET 707; Мудрак 2011: 724]; AI. (Att.) *ta-ya*, *ta-x* (loc. *tuu*) 'there' (anaph.) [AD: 380], *ta-m(a)* 'that; there; as mentioned before' [AD: 387], PAI. **ta-ci-m* (with neg.) '(not) yet' [AD: 379], **tata-* (< **tat-(y)ta-*): **tataam* 3rd p. sg. loc. [AD: 394], ? **t(y)i-* stem of pers. pron. [AD: 397] | PUr. **tä* / **te* / **ti* 'this' [UEW: 514; URALET 1047], **to* 'that' [UEW: 526 f.; URALET 1072] | PYuk. **ti-ŋ*, **tu-ŋvən* 'that (visible), this; here; as, as if; same, similar' [Nikolaeva 2006: N°N°2411, 2470; JUKAET 610], **titə-* 'thus; such (nearer)' [Nikolaeva 2006: N°2424; JUKAET 780], **tittəl* 'they' [Nikolaeva 2006: N°2425; JUKAET 47], **teej* 'that (far, but visible)' [Nikolaeva 2006: N°2400; JUKAET 954], **ta(a)t-* 'yes, so' [JUKAET 781], **-šum*, **-šim* 'do sth. as' [Nikolaeva 2006: N°2474; JUKAET 797] | PDr. **tān* 'he, himself' [DED₂: N°N°2092 3196; DRAVET 1507], **tā* 'they, themselves' [DED₂: N°3162; DRAVET 1505] | PIE. **to-* 'this; that' [WP I: 742 f.; Pokorny: 1086 f.; PIET 3020] | Megr. *te-na* 'this', *ti* 'that' (loss of glottal.) < PEurAs. ***t'a*, ***t'e*, ***t'i* 'this', ***t'u*, ***t'o* 'that' [ОЧНЯ 1: 7; Bomhard 1994: N°103; ND: N°2310; NOSTRET 1581; Fortescue 1998: 140, 158;

ESQET 707; Мудрак 2011: 724; Krougly-Encke 2023: N°A.86c].

A.9. РКCh. **mi-ke*, **mi-ken-* 'who' (PChuk. **mik*, **mikən-* 'who'; PKam. **k'é* (**k'w'e*), **k'en-* 'who') [Мудрак 2000: 96; КАМЕТ 29; Fortescue 2005: 175; Мудрак 2008: 96]
▲ Cf. РКCh. **majū* ~ **məja* 'where' (loc.) (PChuk. **мажа* ~ **əмжа* 'where is'; PKam. **m^wa'ь*, **m^wan-* ~ **mi'ь*, **min-* 'where') [ЭСЧКЯ: 90 f.; КАМЕТ 6; Мудрак 2008: 121], **m(əj)-ine* 'which, how (adj.)' (PChuk. **меҗ-ине* 'which, how (adj.)'; PKam. **min* 'which, how (adj.)') [Мудрак 2000: 92; КАМЕТ 31; Fortescue 2005: 173], **minkə* 'where (loc.); how (adj.)' [Мудрак 2000: 95; КАМЕТ 32; Fortescue 2005: 176 f.]

The 1st part is cognate to PAlt. **mV* an interrog. stem [EDAL: ; ALTET 1379] | PUr. **mV* 'what; thing' (interrog. and relat. pron.) [UEW: 296; URALET 588] | PYuk. **lō-mə*-, **nō-mə- B* 'what?' [Nikolaeva 2006: N°1028; JUKAET 450], **me(r)* predic. rhemat. part., limit. marker of demon. pron. and quantit. vbs, indef. pron. [Крейнович 1958: 442] | PDr.: Kaikadi *midā*, Burgendi *mī* 'what' | PIE. **me-* 'what' interrog. and relat. pron. [Adams: 451; PIET 2963] (+ Hitt *mahhan* 'how?', *man* 'how? as' [Friedrich: 132, 135]) | PKart. (PKZ.) **ma-j* (Svan) **mu* 'what?' [Климов 1964: 124; EWK: 226 f.; KARTET 664; Klimov 1998: 112], PZan. **mi-n* 'who?' [Климов 1964: 135; EWK: 135; KARTET 1154] < PEurAs. ***mi*, ***ma* 'what?' [Долгопольский 1964: 2; ОСНЯ 1: 9; 2: N°300; Bomhard 1994: N524; ND: N°1355; NOSTRET 1437; Fortescue 1998: 148, 155; Greenberg 2000: N°62];

the 2nd part is cognate to PAlt. **k'a(j) (-n-)* 'who?' interrog. pron. [EDAL: 754; ALTET 959], var. **k'o* (PTung. **xō-ni* 'how?' | Kor. *-ko* marker of the predicat. gerund [ОСНЯ 1: N°232]) | PEsk. **qa(v)-* interrog. stem: **qav-ŋi* 'when? (in past)', **qaku* 'when? (in future)', **qav-ci-* 'how many? how much?', **qa-nū-* 'how?' [CED: 284, 292, 278, 284, 293; ESQET 845; Мудрак 2011: 632 f.]; PAI. **qa-na* 'where? which?' (and its deriv.) [AD: 307 f.]; **ki-na* (**kiR-kur*, **kira-m*) 'who' interrog. pron. [CED: 173 f.; ESQET 104; Мудрак 2011: 373 f.]; PAI. **kiin* interrog. pron. 'who?' [AD: 239] | PUr. **ku-* (~ **ko-*) 'who? what? which?' [UEW: 191 f.; URALET 375], cf. Finn. *-ka* / *-kä* relat. part., *-ko* / *-kö* interrog. part., PUr. **ke* (**ki*) 'who?' (base of obl. cases?) [UEW: 140 f.; URALET 274] | PYuk. **qadV-* 'which? who? why?' [Nikolaeva 2006: N°1964; JUKAET 703], **qa-nin*, **qa-min* 'when?' [Nikolaeva 2006: N°1964; JUKAET 279], **qamu-* 'how many? how much?' [Nikolaeva 2006: N°1992; JUKAET 905], **qo-*, **qolə-* 'where? where by? where to?' [Nikolaeva 2006: N°2039], [JUKAET 933], **qoodə-* (*k-*) 'why? which? how? anyhow' [Nikolaeva 2006: N°1964; JUKAET 306] | PIE. **k^wi-*, **k^we-*, **k^wo-*, **k^wu-* pron. interrog. 'who; what' [WP I: 514 ff.; Pokorny: 644 ff.; PIET 2940] < PEurAs. ***k'a*, ***k'u* ~ ***k'o* (~ *q'-*) 'who? when? where? how?' [Долгопольский 1964: 15; ОСНЯ 1: N°232; Fortescue 1998: 141, 153; ND: N°981; Bomhard 1994: N°324; Nikolaeva 2006: N°1964; Greenberg 2000: N°60; NIODET 685], PEurAs. ***k'i* ~ ***k'e* (~ *q'-*) 'who?' [ОСНЯ 1: N°223; Bomhard 1994: N°324; ND: N°981; NOSTRET 1369; UEW: 140; Nikolaeva 2006: N°826; Fortescue 1998: 140, 143, 154; NIODET 685; NIVGET 61; ESQET 104; Мудрак 2011: 632; Krougly-Encke 2023: N°A.96b].

A.10. PKCh. **mür̄i*, **mür̄yə-* 'we' 1st pl. pers. pron. [Мудрак 2000: 97; KAMET 39; Fortescue 2005: 179; Мудрак 2008: 139]

▲ Cf. PKCh. **ȳm̄o*, **ȳəmi-* 'I' 1st sg. pers. pron., q.v.

A.11. PKCh. **'nə-qə* ~ **'əne-qə* 'what' (PChuk. **šən*, **šeq-* 'what'; PKam. **'b̄p̄q̄ä*, **'b̄p̄q̄ä* 'what') [KAMET 471]

▲ Cf. PChuk. **nike* 'this (substit.)' [Мудрак 2000: 189; CHUKET 879; Fortescue 2005: 187 (Chuk. + Kam.)] and PChuk. **niškə-* 'somebody; that one' (substit., pers.) [Мудрак 2000: 189; CHUKET 897; Fortescue 2005: 187]

The 1st part is cognate to || PAlt. **ŋ[i]V* 'what? who?' interrog. pron. [EDAL: 1034; ALTET 1552] | PEsk. **na-ru*, **nat-*, **nat-liv (-r-l-?)* interrog. pron. 'where; which; how' [CED: 204; ESQET 247; Мудрак 2011: 467]; PAL. **[qa]-na-* 'which? where?', **[qa]-na-aki-* 'which one? which side?', **[qa]-na-a-ŋ* 'how many?' [AD: 307 f.] | PYuk. **lömə-*, **nömə-* 'what; nothing; where' [Nikolaeva 2006: N°1028; JUKAET 450] | PNDr. **nē* interrog. base [NDRET 643], Br. *dē(r)* 'who?' sg. or pl. | PIE. **an* interrog. part. [Fraenkel: 10; PIET 3094] | Laz *na*, Megr. *ni*, *na* 'which' (relat.) | PKCh. **'nə-qə* ~ **'əne-qə* interrog. pron. 'what?' diff. in [Мудрак 2000: 129; KAMET 471; Мудрак 2008: 29 f.; Fortescue 2005: 56 f., 399] < PEurAs. ***nV* ≈ ***VnV*, ***ŋV* 'who? what?' (interrog. pron.) [ND: N°N°1633, 2616; NOSTRET 1476; NIODET 480, 750; ESQET 719; Мудрак 2008: N°34; Мудрак 2011: 467; Krougly-Encke 2023: N°A.98d]; the 2nd part is etymologically identical to the 2nd part of PKCh. **mi-ke*, **mi-ken-* 'who', q.v.

A.12. PKCh. **turi*, **turyə-* 'you' 2nd p, pl. pron. (PChuk. **turi*, **turyə-* 'you'; PKam. **tuzä*, **ti^(w)zy^win-*, **ti^(w)zi-* 'you') [KAMET 170], EKam. (Ukä) [Klaproth] *tu* 'you', [Radlinski] *tue*, [Dall] *tūa* 'thou' [Greenberg 2000: 71 f.]

| PAlt.: PMong. **či* 'thou'; PTung. **mi-ti* 1st p. incl. pron. ("I + thou") | PUr. **tE*, **tū-* (obl.) 'thou' [UEW: 539; URALET 1098], **-t* 2nd p. sg. vbal marker | PYuk. **tə(t)* 'thou' [Nikolaeva 2006: N°2410; JUKAET 318], **-t* 2nd p. sg. poss. marker 'thy', **tiδ* 'you' [Nikolaeva 2006: N°2423; JUKAET 841] | PDr. **-ti* 2nd p. sg. vbal marker | PIE. **tū* (nom.), **te* (acc.), **towe* (obl.) 'thou' [WP I: 745 f.; Pokorny: 1097; PIET 2949], **-tHa* 2nd p. sg. (du.) pass. vbal marker, **-tHe* 2nd p. pl. (du.) act. vbal marker, cf. (?) **-dhwe-* 2nd p. du. med.-pass. marker | PKart. **(s)tkwen* 'you, your' [КЛИМОВ 1964: 176; EWK: 167] (maybe, **(s)tken*, cf. Svan *sgäj*) < PEurAs. ***t'u*, ***t'e* ~ ***t'i (-[x]e)* 'thou, you' [ОСНЯ 1: 6] (PK, PIE, PU, PA, PD + PAA), [IENH: #102] (PIE, PU, PMng, El *-t* 2nd p. sg. vb marker, PD, PE + PAA + Sum), [DN 2312, 2312a] (**t[ü]*, **t[ü]ʔa* 'thou'), [DMSSN 1582] (**t[u]* 2nd p. pron. 'thou': PK, PIE, PU, PMng, PD), [IECR 1: 71 sq.], [ИАЭ: #17]

B. Particles, interjections, grammatical markers.

B.1. PChuk. **ana* 'maybe, probably' [CHUKET 1751; sub Fortescue 2005: 21]
| PIE. **an* interrog. part. [Fraenkel: 10; PIET 3094] < ? PEurAs. ***ʔan(V)* interrog. / conjunct.
part.

B.2. PChuk. **ašaq-la* 'quite; any; vainly; though, but' [CHUKET 65]
| PAlt. **arV* 'or' (PTurk. **aru* 'or'; PJap. **ar-* 'or; perhaps') [EDAL: 316; ALTET 2774] | Geor.
ara 'not' < PEurAs. ***ʔarV* concess. modal part.

B.3. PKCh. **ʔkta-* 'well! come on! suddenly' (PChuk. **ʔkta-* 'suddenly; come on!'; PKam.
**kat-* (~ *q-*) 'come on!') [Мудрак 2000: 181 (Chuk.); KAMET 1136; Fortescue 2005: 152 f.;
Мудрак 2008: 90]
ʔσ | PAlt. **k'eta* 'to overcome; to contend' [EDAL: 784; ALTET 1018] | PIE. **k'ad-* 'to be
distinguished' [WP I: 340; Pokorny: 516 ff.; PIET 1484] < PEurAs. ***k'etV* 'to overcome'
[NOSTRET 1129].

B.4. PKCh. **qu-θmə* 'not, no' (categor. neg.) (PChuk. **qəšmə* ~ **əqšəm* 'not, no' (categor.
neg.); PKam. **qʷaʔm*, **qʷaʔəm* 'not to have; to be insufficient') [KAMET 276; Fortescue
2005: 243; Мудрак 2008: 161]

▲ The 2nd part being PKCh. **'əθəme-* 'to dive; to wash'? Q.v.
| PYuk. **go-də-* 'not to want', fut. tense neg. sub [Nikolaeva 2006: N°2039; JUKAET 708] |
PIE. **k(w)e* part. 'wohl' [WP I: 326; Pokorny: 515 f.; PIET 3058] | Geor. *ki* 'yes' (with neg.) <
PEurAs. ***k'(w)V* ~ ***k'U* (~ *q'-*) intens. part., emph. neg. [NIODET 358; Krougly-Encke
2023: N°A.62].

Grammatical markers.

B.5. PChuk. **-ʔkʷaʒ* coll. suff. (usually, for plant names) [CHUKET 1634]; PKam. **-al* coll.
suff. [Greenberg 2000: N°20]

| PAlt. **-l(a)* coll. suff. (PTurk. **-la/ā* suff. of coll. numer., **-la/ā-r* suff. of pl.; PMong. **-l* arch.
suff. of pl. (also **-čul-*); PTung. **-l* suff. of pl. of participles and some nouns; PJap. **-ra* pl. suff.)
[ОЧНЯ 2: N°246] | PAl. **-Vlki-* / **-aalvi-* suff. 'many' and some other [AD: 482] | PUr. **-la/ā*
coll. suff. | PDr. **-l* suff. of pl. | Hitt. *N^{NUM}-li* 'containing N size or weight units' [Friedrich
1960: 72] | PKart. **-l* marker of pl. (of the nouns ending on V) < PEurAs. ***-l(H)V* coll. suff.
[ОЧНЯ 2: N°246; Greenberg 2000: N°20].

C. Natural phenomena, landscape.

C.1. PKCh. **'ajimʔ-* 'water; seashore' (PChuk. **aʒmʔ-* 'to go for water; grassy seashore
(waterfence); hole in the ice'; PSKam. **'aʒm* 'water') [Мудрак 2000: 154 (Chuk.); KAMET

1123; Fortescue 2005: 17; Мудрак 2008: 25 f.]

| PAlt. **āmu* 'river; valley' [EDAL: 297; ALTET 71] | PEsk. **ima-* < **ema-* 'sea, ocean' [CED: 130; ESQET 653; Мудрак 2011: 301 f.] | PSam. **jām* 'sea' [Janhunen 1977: 40] | PYuk. **emu-l* (~ *ö-?*) 'island' [sub Nikolaeva 2006: N°449; JUKAET 265] | PDr. **ām-* 'water' [DED₂: N°187; DRAVET 46] < PEurAs. ***jamV* 'body of water' [MCCHЯ: 349; OCHЯ 1: N°144; ND: N°2632; NOSTRET 390].

▲ Cf. PKCh. **'ьмо-* 'deep' (PChuk. **'ьm-* " 'deep; high-water; high tide'; PKam. **'a^wm-* 'deep') [KAMET 607; Fortescue 2005: 341].

C.2. PKCh. **'ьγ^wjal* 'winter storm, blizzard; to storm (in winter)' (PChuk. **ьγзат* " 'winter storm, blizzard; to storm (in winter); downwind'; PKam. **x^wijal* (~ **γ^w-*) 'winter storm') [Мудрак 2000: 45; KAMET 315; Fortescue 2005: 332; Мудрак 2008: 220]

| PAlt. **eba* (*-rV*) 'to winnow, fan' (PTurk. **ebis-* 'to winnow, fan'; PTung. **ebiri-* 'to winnow, fan'; PЯap. **apu-*, *-r-*, *-(n)k-* 'to blow; to fan') [EDAL: 488 f.; ALTET 408] | PIE. **(a)wē-* (PIH. **H-*) 'to blow (of wind)' [WP I: 220 f.; Pokorny: 81 ff.; Tischler: 328 ff.; Adams: 505; PIET 1387] | PDr. **āv-* 'to breathe; steam' [DED₂: N°393; DRAVET 115] (or with PAlt. **iābo*) < PEurAs. ***HewV* (~ *-γw-*) 'blow (of wind)' [NOSTRET 292].

C.3. PChuk. **ьklay* (~ *o-*) 'sparkle' [CHUKET 2223]

| PAlt. **k'iāla* (~ *-l-*) 'hot; ashes' (PMong. **kala-* 'to heat'; PTung. **xial-* 'coal; black') [EDAL: 796; ALTET 1040] | PDr. **kāl-* 'to burn' [DED₂: N°1500; DRAVET 555] | PIE. **k'al(w)e-* / *-e-*, **k(')lēw-* 'warm; hot' [WP I: 429 f.; Pokorny: 551 f.; PIET 1545] < PEurAs. ***k'ila*, *-a-* 'to burn' [MCCHЯ: 341; OCHЯ 1: N°208; ND: N°1040; NOSTRET 150].

C.4. PKCh. **'ьpкь-* 'layer; interlayer' (PChuk. **ьpкь-* 'layer; interlayer'; PKam. **pьк'ь-* 'stratification, stratum') [ЭСЧКЯ: 110; KAMET 754]

| PDr. **pak-* 'scab' [DED₂: N°3811; DRAVET 1164] | PKZ. **pakl-* 'scab, scabies' [EWK: 351 f.; KARTET 760], cf. Geor. *pax* 'cuticles' < PEurAs. ***pVkvV* 'scab' [Fähnrich KD: 19; NOSTRET 1484].

C.5. PChuk. **ьqзaz* 'stone fortress; ice barrage' [CHUKET 2055]

| ? PTurk. **K(i)aja* 'rock; mountain; slope' [TURKET 185] (sub PAlt. **kadV* 'rock; mountain' [EDAL: 629 f.; ALTET 699]) | PSam. **koəjə* 'mountain' < PEurAs. ***KVjV* (~ *q'-*) 'stone, rock; mountain'.

C.6. PKCh. **'ьγyilō* (~ **'əγyilu*) 'ice; sludge' (PChuk. **ьγyil* 'silt; first ice on sea; thin sludge'; PKam. **čixus^w-m* 'ice') [KAMET 1273]

▲ Metathesis < **'ьlyiio* < **'ьlriyo*.

| ?σ PAlt. **lurkV* (~ *l-*, *-iu-*, *-io-*, *-o-*) 'to burn; warm' (PTung. **lurgi-* 'to burn'; PKor. **nok-* /

nuk-* 'to melt, dissolve; to get warm'; P₁Jap. **nuku-* 'warm') [EDAL: 882; ALTET 1321] | P₂Yuk. **jarqa-* (~ *-ä-*) *B* 'to freeze; frozen; ice' [Nikolaeva 2006: N°657; JUKAET 236] < P₂EurAs. *lurkV* 'to freeze; cold' cf. [NIODET 1490; Krougly-Encke 2023.: N°15b].

C.7. P₁Chuk. **ɫbal-* (~ *-ɣ-*) 'to blow, winnow; to flap, weaver (on wind); to nod; to flatter, wag; flag' [CHUKET 1869]

▲ Metathesis < **ɫblal-* (~ *-ɣ-*).

| Ewk. *bol̥-* 'to blow (of wind)' | PIE. **bh[e]le-* / **bhlē-* 'to blow; to inflate' [WP II: 177 f., 189; Pokorny: 120 ff.; PIET 2101] | P₁Kart. **ber-* 'to blow, blow up' [ОСНЯ 1: N°29; KARTET 44] < P₂EurAs. ***bVIHV* (~ *-i-*) 'to blow, blow up' [МССНЯ: 340; ОСНЯ 1: N°29; ND: N°N°198, 209; NOSTRET 137].

C.8. P₁Chuk. **əcyɛʒ* 'sand; gravel' [Мудрак 2011: 157; CHUKET 161; Fortescue 2005: 50 f.], P₁KCh. **[ʼej]əčji-* 'hillock; wave; bank, embank' (P₁Chuk. **ɛʒəcyi-* (~ *a*) 'wave, surf'; P₁Kam. **ejči-pi-* 'wave; hill; moat, ditch') [KAMET 1129; Мудрак 2008: 46]

▲ The 2nd part is P₁KCh. **iŋw-* 'water', q.v.

| P₁Alt. **siōgu* 'shallow; shallow place' [EDAL: 1274; ALTET 2045] | P₂Esk. **cibu-ɜ-*, **cib-mi-* 'to become covered with dirt, sand, ice' [CED: 85, 87; ESQET 669; Мудрак 2011: 196]; P₁Al. **cuyu-* 'sand; mud' [AD: 151 f.] | Mord. (E.) *čovar*, (M.) *šumar*, *šumar* 'sand' | P₂Yuk. **soilə* (**söil*) 'stone; stone (attr.); sand' [Nikolaeva 2006: N°2264; JUKAET 148] | P₁Dr. **isuk-* 'sand' [DED₂: N°575; DRAVET 447] < P₂EurAs. ***c'egu* (~ *-ɣ-*) 'sand; sand bank' [Fortescue 1998: 136, 152; NIODET 829, 1492; Krougly-Encke 2023: N°A.22a].

C.9. P₁KCh. **əɣʷjil* (~ *-i-*) 'dark; shadow' (P₁Chuk. **əɣʷjil* " 'shadow (contour, not umbrage); reflection (in water); to reflect (shine)'; P₁Kam. **xʷi'li* ~ **xu'li* " 'shadow') [Мудрак 2000: 214, Chuk.; KAMET 1029; Мудрак 2008: 221; Fortescue 2005: 333-334]

| P₁Alt. **k'olmV* 'shadow; cloud' [EDAL: 835; ALTET 1116] | P₂Esk. **qəmlə-ɜ-* (~ *-lmə-*) < **qəml̥ɬ-ɜ-* (~ *-lm̥ɬ-*) 'to glitter, to shine' [CED: 301; ESQET 940; Мудрак 2011: 645-646] | P₁SDr. **kal-* 'mark; scar' [DED₂: N°1313; DRAVET 2057] | PIE. **kāl-* 'dark; black' [PIET 2802], **kal-* / *-e-* 'spot (on the skin)' [PIET 2801] < P₂EurAs. ***k'olV* (~ *q'-*) 'dark' [ND: N°1025; NOSTRET 230].

C.10. P₁KCh. **əjja'* " (*-m*) 'fog; cloud' (P₁Chuk. **əjja* " 'fog; cloud'; P₁Kam. **ijeji-ŋ* (< **ije-jij* ") 'fog; cloud') [Мудрак 2000: 61; KAMET 460]

| P₁Alt. **inE(rV)* 'evening; dusk' [Мудрак 2008: N°207; ESQET 644; Мудрак 2011: 291] (amend. by O. Mudrak from **ina* (*-ŋi*) 'dawn, dusk' [EDAL: 586 f.; ALTET 600]) | P₂Esk. **i(j)ni-(vka-)* ~ **i(v)ni-ka-* 'mirage' [CED: 133 f.; ESQET 1426; Мудрак 2011: 291 f.]; P₁Al. **in-ka-* 'sky, heaven; air; cloud' [AD: 202 f.], **ini-* 'sky, heaven, air; pl. clouds; ceiling' [AD: 201] | ? P₂Yuk. **niwə-* 'cloud; thunder (of a cloud)' [JUKAET 411] (metath.?) | P₁Dr. **vin-* 'sky'

[DED₂: N^o5396; DRAVET 1806] | PIE. **Ang-* 'early' [Fraenkel: 11; PIET 3095] < PEurAs. ***ʔijǵ V (~ w-) (-rV)* 'cloud; dusk; evening' [ND: N^o2501a; Krougly-Encke 2023: N^oA.14b].

C.11. PKCh. **'ə́lfiwéł ~ *'ə́léłfiwə* 'wind; to blow (wind)' (PChuk. **'ɫbal-* (~ *-y-*) 'to blow (wind)'; PKam. **-ləwɫ(u)* 'wind') [KAMET 432; Мудрак 2008: 123]

| PAlt. **'léIV* 'to run; to ride; to hurry' [EDAL: 886; ALTET 1754] | PFUg. **lewIV* 'breath; soul' [UEW: 247 f.; URALET 488] / **lewli* 'soul' [Sammallahti 1988: 545] | ?σ PYuk. **lolya-* 'to boil (intr.); to popple; boiled; breaker, surf' [Nikolaeva 2006: N^o1083; JUKET 219] | PIE. **leleǵ-* 'to swing; to rock to sleep' [sub WP II: 376 f.; Pokorny: 650 f.; PIET 2263] | PKZan. **lal-* 'to urge; to drive away' [EWK: 215 f.; KARTET 636] < PEurAs. **'ieHj/wIV* 'to blow (wind); to breathe; to swing; (?) to hurry' [Krougly-Encke 2023: N^oA..108].

C.12. PKCh. **'ə́myə́m "* 'wave' (PChuk. **əmyu-* (< **əmyvə*), **məy "* ~ **məy "* 'wave; to wave; edge of wave; wavy'; PKam. **myu-mywu-m* 'wave') [Мудрак 2000: 94; KAMET 16; Fortescue 2005: 180]

| ? PDr. **mī-* 'to wash' [DED₂: N^o4878; DRAVET 86] | PIE. **mū-* 'to wash; to wet' [WP II: 249 f.; PIET 2884] < PEurAs. ***mVy(w)V* 'water; wet' [MCCHЯ: 334; OCHЯ 2: N^o298; ND: N^o1382; NOSTRET 60].

C.13. PKCh. **'ə́jle-* 'to burn (intr.); dawn' (PChuk. **əjl-et-* " 'flame; to flame, to burn (intr.); to smoke (intr.); to burn (tr.); to inflame'; PKam. **'ijl'i-* (*lʔ*) 'to burn (intr.); dawn') [Мудрак 2000: 102, Chuk. + incorr. Kam.; KAMET 871; Fortescue 2005: 201, Chuk. + incorr. Kam.]

▲ Hereto **'jɫlu*, **'jɫl-vaj* 'smoke' (PChuk. **'jɫL "*, **'ɫjLɫ-* 'smoke (also attr.); to smoke (intr.); plume of smoke; to smell like smoke'; PKam. **'jačɫzu "*, **'jazu-ɟaz "* 'smoke') [Мудрак 2000: 102; KAMET 59; Fortescue 2005: 201]

| PAlt. **'jiōle* 'red; pink; yellow' [EDAL: 1032; ALTET 1541] | Al. (E) *ulbi-ika-điɣa-χ* 'rainbow' [AD: 435] | PFUg. **walkV* 'white; light; to shine' [UEW: 554; URALET 1125] / **wilki-* 'light' [Sammallahti 1988: 551], **walV* 'glitter; to shine' [UEW: 555; URALET 1126] | PDr. **mūl-* 'to catch fire', caus. **mūt-* 'to kindle' [DED₂: N^o5048; DRAVET 959] | PIE. **wlek-* 'to lighten; fire' [WP I: 321; Pokorny: I: 1178] | Megr., Laz. *val-* 'lighten' < PEurAs. ***ɣwell* (~ *-ǵ-*) (*-k'/q'V*) 'light (n.)' [MCCHЯ: 363; ND: N^oN^o2483, 2488; NOSTRET 515].

▲ PDr. **vel-* 'white' [DED₂: N^o5496; DRAVET 1770] is rather to PEurAs. ***beIV* 'to shine, glitter'.

C.14. PKCh. **'ə́pəl* 'mountains; ravine' (PChuk. **pal "* (~ *a*) 'a high mountain crest (e.g. between Penzha and Alyutor Districts); circle of stones, layed out around the dead'; PKam. **'ə́pil-ip* 'ravine') [KAMET 1266]

| PIE. **pels-* 'rock, cliff' [WP II: 66 f.; Pokorny: 807; PIET 906] < PEurAs. ***pVIV* (~ *p'-*, *-ǵ-*) 'rock; cliff' [Krougly-Encke 2023: N^oA.81].

C.15. PKCh. **'əpʷə- 'əpʷə-* 'to boil (tr., intr.)' (PChuk. **əpʷ-əpʷ-et-, *əpʷ-əpʷ-et-* 'to boil (intr.)'; PKam. **p'aʷu-p'aʷ* 'to boil (tr.)') [Мудрак 2000: 163, Чук.; КАМЕТ 613; Fortescue 2005: 220, 347 (Chuk. + incorr. Kam.)]

| PAlt. **p'uje* 'to whirl; to boil' (PTurk. **üjük* 'quicksand; to sink'; PMong. **hujil-* 'whirlpool'; PTung. **puju-* 'to boil') [EDAL: 1179; ALTET 1848] | PUr. **peje-* 'to cook, to boil' [UEW: 368; URALET 745] / **pexi-* [Janhunen 1981: 92; Sammallahti 1988: 539] | PIE. **spē- (-ph-)* 'to ripen, flourish, prosper' [WP II: 656 ff.; Pokorny: 983 f.; PIET 2596] | PKart. **pu-* 'to swell, leaven, rise (of dough)' [Климов 1964: 192; EWK: 361; KARTET 797] (contam. with PEurAs. ***puwV* 'to blow, swell', q.v.) < PEurAs. **p'uye, -e-* 'to boil, ripen, smoke' [МССНЯ: 343 f.; Fortescue 1998: 134, 145, 150, 156; ND: N°1838; NOSTRET 193].

C.16. PKCh. **'əpnu-* 'hill; foothills' (PChuk. **ьpno-ткьп* 'source of the river, upper river'; PKam. **pinuzi* 'hill, hillock') [КАМЕТ 1135; Мудрак 2008: 128]

| PTung. **bongo-* 'first; main' [Цинциус 1: 94], cf. **buja-* 'lump' [Цинциус 1: 110 с.] | ? PEsk. **pənu* < **pъno ~ *pənu* 'hill; swelling' [CED: 255; ESQET 506; Мудрак 2011: 551] | PFUg. **pujka (*pojka)* 'tuber, boil, unevenness' [UEW: 404; URALET 827] (+ Selk.) | PYuk. **pujkə-* '(large) bump; hill, mound' [Nikolaeva 2006: N°1948; JUKAET 565], **ponni-* 'to swell' [Nikolaeva 2006: N°1869; JUKAET 869] | PDr. **poj-* 'to swell' [DED₂: N°4469; DRAVET 1336] | PIE. **bheng'h-* 'thick' [WP II: 151; Pokorny: 127 f.; PIET 116] < PEurAs. ***bUj(g)V* 'thick; to swell; swelling; hill' [МССНЯ: 333; ОСНЯ 1: N°17; ND: N°217; NOSTRET 49].

C.17. PKCh. **'əqəqə-mlə-* 'brook; pool, puddle' (PChuk. **əqqe-mlə* 'well; puddle'; PKam. **q-enli-, *q'iq'q'-mli-* 'brook; dirt; slush') [Мудрак 2000: 117; КАМЕТ 619] (the 2nd part is **'imlə-, *mi'mlə-* 'water', q.v.)

| PAlt. **iak'i (~ -k-)* 'liquid; flow' [EDAL: 598; ALTET 620] | PIn. **əqa-ʷ-* 'wash' [CED: 141; INUPET 1726; Мудрак 2011: 974 f.] | PUr. **joke* 'river' [UEW: 99; URALET 188] / **juka-* [Janhunen 1977: 15; Sammallahti 1988: 537] | PSDr. **āk-* 'swamp; flat land' [DED₂: N°336; SDRET 304] | PIE. **akʷ-* (PIH. **a-*) 'water (flowing)' [WP I: 34 f.; Buck: 29, 35, 42; Pokorny: 23; PIET 40] < PEurAs. ***?ak'wi (~ -q'-)* 'water' [Долгопольский 1964: 8; МССНЯ: 334, 347; ОСНЯ 1: N°139; ND: N°123; NOSTRET 61; Greenberg 2002: N°413; Мудрак 2011: 974 с.; Krougly-Encke 2023: N°A.19].

C.18. PKCh. **'ətfiə-* 'to pour (liquid or fine substance)' (PChuk. **ətʰə-* 'to pour (liquid or fine substance) (tr., intr.); fluid'; PKam. **tā'whь-tā'wh "*, **tʰhь-* 'snowfall') [КАМЕТ 137; Fortescue 2005: 301 (Chuk. + incorr. Kam.)], cf. PKam. **thā-li-* 'to get wet; to snow' [ITELET 137]

| PIE. **tā-* 'to melt' [WP I: 701 ff.; Pokorny: 1053 f.; PIET 1777] < PEurAs. ***t'VHV* 'to melt; to pour'.

C.19. PKCh. **'ətjē-* 'light (n.); to dawn' (PChuk. **ətjē-* 'to dawn, to rise (of sun); dawn peak; dawn, dawning'; PKam. **'ā(w)txi-*, **'btx-btix*, **'btix-sb-* 'dawn; light (of sky)') [Мудрак 2000: 35 (conf.); KAMET 646; Fortescue 2005: 299 f. (Chuk. conf. + incorr. Kam.)]

| P Jap. **tiantaN* 'sun' (< PAlt. **tiantV* 'sun'? [ALTET 2641]) | PIE. **dey-*, **dei-n-* 'day' [WP I: 772 f.; PIET 184] | PKart. **te-* 'eye; light' [Климов 1964: 91, 260; EWK: 145, 160; KARTET 1045; Klimov 1998: 67], **ten-* 'to get bright' [Климов 1964: 92; EWK: 159 f.; KARTET 1048; Klimov 1998: 68] < PEurAs. ***tI (-ŋ V)* 'light (n.); day' [NOSTRET 358].

C.20. PKCh. **(')fiāno-* 'winter; become hoary with frost' (PChuk. **bano-zpъ-* 'to cover with frost; chin rest against frosting the clothes'; PKam. **h^wan-kī*, **q^wan-kī* 'winter') [Мудрак 2000: 47 f.; KAMET 705; Fortescue 2005: 400 (Kam.); Мудрак 2008: 162 f.]

| PAlt. **k'iojjo* 'cold' [EDAL: 803; ALTET 1054], cf. PAlt. **k'ujgo* (~ -o-) (-rV) 'freeze; snow' [EDAL: 854; ALTET 1146] | PEsk. **kanəb* 'frost, hoar-frost' [CED: 156; ESQET 34; Мудрак 2011: 342], cf. PEsk. **qəŋavt[u]*- 'snow-drift' [CED: 267; ESQET 648; Мудрак 2011: 649] | PUr. **konta* 'frost, cold' [UEW: 176 f.; URALET 349], cf. PSam. **k[ī]nV* 'frost' | PYuk. **qa(n)zə-* 'cold (adj.); cool down; cold, frost, winter' [Nikolaeva 2006: N^o2000; JUKAET 297], **qan-qa-* 'cooled down' [sub Nikolaev 2006: N^o2000; sub JUKAET 297] | PIE. **k'ejə-* 'freeze; cold' [Mayrhofer 3: 383; PIET 3208] | PGon. **kin-* 'cold' [DED₂: N^o1601; GONET 485] | PKart. **qin-* 'cold; freeze; make cold' [Климов 1964: 212; EWK: 416; KARTET 876] < PEurAs. ***q'ijj(H)V*, -o-, -a- 'freeze; cold' [МССНЯ: 371; UEW: 177; Nikolaeva 2006: N^o2000; Fortescue 1998: 140, 135, 153; Bomhard 1996: N^o629; Greenberg 2002: N^o354; ND: N^o1908; NOSTRET 597; NIODET 356; Мудрак 2011: 127, 342; Krougly-Encke 2023: N^oA.15a].

C.21. PKCh. **'ifw* 'water' (PChuk. **iy-*: **iy-bici-*, **iy-ini-* 'water: to drink (water); to wet the runners with the water; to hunt on the sea'; PKam. **i'hb* 'water') [Мудрак 2000: 51, 56 f., 173; KAMET 666; Fortescue 2005: 105 f., 106]

| PFUg. **uŋa* 'stream; to flow' [UEW: 544 f.; URALET 1107] / **uwa* [Sammallahti 1988: 542] | PIE. **aw[e]-* (PIH. **H-*) 'water (flowing)' [WP I: 268 f.; Buck: 37, 45; PIET 1207] | PYuk. **eji-* 'to rain; to splash of water' [sub Nikolaeva 2006: N^o417; JUKAET 832] < PEurAs. ***?iHwV* ~ ***HVwV* 'flowing water, stream; flow' [Collinder 1955: 125; МССНЯ: 334; ОСНЯ 1: N^o119; ND: N^oN^o794, 2611; NOSTRET 62; NIODET 1630; Krougly-Encke 2023: N^o94b].

C.22. PKCh. **'imlə-*, **mi'mlə-* 'liquid; water' (PChuk. **mimlə*, **imlə-*, **-imlə* 'water; to overflow, fill with water'; PKam. **'imli-*, **mili-* 'to drink (some drink)' [Мудрак 2000: 55; KAMET 655; Fortescue 2005: 99]

| PAlt. **emV* (~ **emi*) 'to suck' [EDAL: 505 f.; ALTET 2651] | PUr. **ime* 'to suck' [UEW: 82; URALET 150] < PEurAs. ***?ImV* 'to suck' [ОСНЯ 1: N^o109; ND: N^o134; NOSTRET 626; Krougly-Encke 2023: N^oA.23a].

C.23. PKCh. **jun-* 'fire; spark' (PChuk. **зъп "*, **jun-* 'fire; heat'; PKam. **sun-* 'to sparkle, glisten') [Мудрак 2000: 62; KAMET 425; Fortescue 2005: 121]

| PEsk. **əknə-* 'fire' [CED: 101; ESQET 581; Мудрак 2011: 233] | PFUg. **āj V-* 'fire; burn' [UEW: 26; URALET 45] | PIE. **ngn-i-* 'fire' [WP I: 323; Pokorny: 293; PIET 1256] < PEurAs. ***HVj(k)V (-nV) (~ j-)* 'fire; burn' [МССНЯ: 352; ОСНЯ 1: N°106; ND: N°814; NOSTRET 302; KAMET 425; Krougly-Encke 2023: N°A.28a].

C.24. PKCh. **q̄b̄r'm̄b̄* 'sandbank' (PChuk. **q̄RRb̄ "* (< **-rb-?*) 'cape; sandspit (on river)'; PKam. **k'izu-m*, **k'izwi-* 'sandbank') [KAMET 270]

▲ Metathesis < **q̄bm'rb̄?*

| PAlt. **kiumo* 'sand; dust' [EDAL: 705; ALTET 848] | PEsk. **q̄mi-* (*-Груу*) 'hill, hillock; ridge' [CED: 296 f.; ESQET 922; Мудрак 2011: 643 c.] | PUr. **kum V* 'thin snow' [UEW: 204; URALET 400] / PFUg. **kumi* 'rim, frost' [Sammallahti 1988: 544]; PSam. **k̄m̄ê-* 'thin snow' | PSDr. **Kum(b)-* 'mud; stench' [DED₂: N°1748; SDRET 1523] < PEurAs. ***kimwV ~ **kumi* 'sand; > thin snow' [МССНЯ: 362; ND: N°1066a; NOSTRET 511; UEW: 204; NIVGET 894; Мудрак 2011: 644; Krougly-Encke 2023: N°A.70].

C.25. PChuk. **qeli "* (~ *a*) 'the cloud (covering mountain)' [CHUKET 2160], cf. PChuk. **qil-* 'glitter' [CHUKET 2079]

| PAlt. **gile* (~ *-i*, *-o*) 'shine, glitter' [EDAL: 544 f.; ALTET 510] | ? PEsk. **qilay* (*-Ауу*) 'sky; cloud' [CED: 304; ESQET 550; Мудрак 2011: 659]; PAI. **qila-* 'morning; dawn' [AD: 322] (can be to other Alt. etyma) | PFenn. **k̄IV-* 'shine' | PDr. **kil-* 'rust; verdigris' [DED₂: N°1586; DRAVET 594] | PIE. **g'hel[o]-*, **g'hlōw-* 'shine; shimmer; green' [WP I: 523 f., 622 f.; Pokorny: 429 ff.; PIET 372] < PEurAs. ***gilH(w)V* 'glitter; > bright colour' [Долгопольский 1964: 18; МССНЯ: 330; ОСНЯ 1: N°84 (v. infra); ND: N°624; NOSTRET 9; NIODET 690; Krougly-Encke 2023: N°A.35a].

C.26. PKCh. **təq̄i-* 'to shine, glitter' (PChuk. **ətqi-Lyər(r)ə-* (~ *i*) 'to shine, glitter; brilliant'; PKam. **tiqi-* (~ *-k-*) 'to shine, glitter') [KAMET 740; Fortescue 2005: 301; Мудрак 2008: 205] | ? PGerm. **daga-z*, **dōga-*, **dōgi-z*, **dōgin-* 'day' [GERMET 157] (if not ←b substr.?) < ? PEurAs. ***dVKV* 'to shine; day' [Krougly-Encke 2023: N°A.60b].

D. Celestial bodies.

D.1. PKCh. **'ejer('mə)* 'star' (PChuk. **ejer(ʒə)* (~ *a*) 'star'; PKam. **'eje'wzi-ŋ ~ *'ejezi-ŋ*, **'ezeji-* 'star') [Мудрак 2000: 29; KAMET 588; Fortescue 2005: 35 f.; Мудрак 2008: 49]

| PAlt. **jēra* 'day; sun; light' [EDAL: 1028 f.; ALTET 1439] | PAI. **ajali-* 'daylight; lightl day; to be day; to pass the day (doing so and so), to be (so and so) during the day' [AD: 86 f.] | PDr.

nē-r-* 'time; sun' [DED₂: N°3774; DRAVET 1017], PNDR. **nar-* 'flame' [DED₂: N°2929; NDRET 524] < PEurAs. *jerV* 'light, daylight' [МССНЯ: 337, 339, 364 (2 roots); ОСНЯ 2: N°320; ND: N°N°1561, 1645; NOSTRET 109; NIODET 670].

D.2. PKCh. **[ʼəjfiə]-il̥ə-n* (~ *-ilyə-n*) 'moon' (PChuk. **əzv-ilyə-n* 'moon'; PKam. **jé'ьliin* (~ *-lyin*) 'moon') [Мудрак 2000: 60; КАМЕТ 998; Fortescue 2005: 124; Мудрак 2008: 86]

▲ The 1st part is PKCh. **ʼəjfiə* (~ **jəfiə*) 'cloud, storm cloud', q.v.

| PAlt. **luŋu* (~ *l̥-, -o-, -i*) 'morning or evening dawn' [EDAL: 881 f.; ALTET 1230] | PEsk. **nuŋəru-* (~ *ni-*) 'moon; star; light not bright' [CED: 133, 137; ESQET 428; Мудрак 2011: 495] | PFP. **lowna* 'day; midday' [UEW: 693; URALET 1408; Sammallahti 1988: 552] < PEurAs. ***IUŋV* (~ *l̥-*) 'easy skylight' [NIODET 1342; GLOBET 1738; Мудрак 2011: 495; Krougly-Encke 2023: N°A.54b].

D.3. PKCh. **fiulfi(w)a-* 'sun' (PChuk. **вълва* " 'sun'; PKam. **(k)ul'wac'* 'sun') [Мудрак 2000: 81; КАМЕТ 602; Fortescue 2005: 393 f. (Kam.); Мудрак 2008: 116]

▲ Cf. PKCh. **afi'ilmā-* 'spark; (kindling) flint, steel' (PChuk. **ayilma-q* '(moss) wick; tinder; (rifle) steel'; PKam. **eč'eme-* (~ **el'eme-*) (*lʔ*) 'spark; lightning') [КАМЕТ 558; Мудрак 2008: 46] (can be ←b Niv.)

| Ewk. *ilān* 'moon' | PUR. **jelä* 'light; sun; day' [UEW: 96; URALET 182] | ? PYuk. **jä-lōō-zə* 'sun' [sub Nikolaeva 2006: N°671; JUKAET 677] (if syncopated < **jälo-lōōzə*.) | PSDr. **el-* 'light; to shine' [DED₂: N°829; SDRET 734] | ?σ PIE. **ēl-* 'to burn (tr.)' [WP I: 88; Pokorny: 28; PIET 1303] | PK **(h)el-* 'flame, lightning' [Климов 1964: 78 с.; EWK: 131] < PEurAs. ***HeIV* 'to shine' [Долгопольский 1964: 9; ОСНЯ 1: N°140; Bomhard 1994: N°N°450, 457; ND: N°N°127, 768, 768a, 2630; NOSTRET 514; Fortescue 1998: 153].

D.4. PKCh **tirqə-n* 'luminary' (PChuk. **tiškə-n* 'sun'; PKam. **tisiyi-n* 'moon') [Мудрак 2000: 143; КАМЕТ 166; Fortescue 2005: 285]

| PAlt. **ti'iolgu* 'moon' [EDAL: 1425; ALTET 2394] | PAI. **tuyi-ḏa-* 'moon' [AD: 402 f.] | PEsk. **taRqi-* < **taRqe-* 'moon; bright' [CED: 330; ESQET 631; Мудрак 2011: 722 f.] | PFP. **tjō]IVcV* 'moon' | PSDr. **tjal* 'moon' [DED₂: N°3213; SDRET 1550] | PIE. **dAng(ʼ)h-l-* 'star' (PGerm. **tungl-a-* n., **tungl-ō(n)-* f., **tungl-an-* n.) < PEurAs. ***t'egV* (*-IV, -r'V*) 'moon' [Терентьев 1991: 112; Круглый-Энке 2000: N°2.1; NOSTRET 275; ESQET 631; КАМЕТ 166; Мудрак 2011: 722].

E. Time and space.

E.1. PKCh. **'ajy'wə* 'windward side' (PChuk. **azyə-* " 'penetrating; smell down the wind; windward side: West (on the Arctic Coast), North (on the Pacific Coast)'; PKam. **'ajwāj* 'North') [Мудрак 2000: 154 (Chuk.); КАМЕТ 1199; Fortescue 2005: 18 (Chuk., diff. Kam.)]

| PAlt. **āra* 'back; behind' [EDAL: 311 f.; ALTET 48] | PEsk. **aryu-* < **āryu-* 'windward side, to be opposite' [CED: 4 f.; ESQET 1579; Мудрак 2011: 149] | PSDr. **ar-ai* 'waist; loins' [DED₂: N^o208; DRAVET 208] | PIE. **ors-* (PIH. **o-*) 'buttock; anus' [WP I: 138; Pokorny: 340; PIET 235; Tischler: 51 f.] < PEurAs. ***?arV* 'back' [ND: N^o145; NOSTRET 1213; Мудрак 2011: 149].

E.2. PChuk. **azyi* 'yesterday; before; ago, lately, recently; evening; dusk (vb.)' [CHUKET 31] | PFUg. **eje* (**üje*) 'night' [UEW: 132; URALET 132] / **üji* [Sammallahti 1988: 542] | PIE. **aw-* 'pass the night' [WP I: 19; PIET 1262] < PEurAs. ***?ajwV* 'evening; night' [ND: N^oN^o65, 157, 1650; sub NOSTRET 725].

▲ Different root in PEurAs. ***?wVHjV* 'get tired; rest; sleep' [ND: N^oN^o157, 1650; NOSTRET 725].

E.3. PChuk. **azyo-* 'long ago, once ago, before; of last year; before, recently' [CHUKET 1730; Fortescue 2005: 18]

| PIE. **Ang-* 'early' [Fraenkel: 11; diff. in Pokorny; PIET 3095] < PEurAs. ***?angV* 'early'.

E.4. PChuk. **anɣ-* 'in, inside; to sink to the underworld (of shamans); core, interior' [Мудрак 2000: 155; CHUKET 79; Fortescue 2005: 22]

| PAlt. **ēna(kV)* 'middle; width' [EDAL: 507; ALTET 461] | PFUg. **En* 'place' [UEW: 592; URALET 1198] | PIE. **en* 'in' prep. / adv. [WP I: 125 f.; Tischler: 33 f.; PIET 3045], **(e)nero-* 'inner', **enter*, **nter* 'between inside', **entero-* 'inner', **entos* '(from) inner' and **ent-er-* 'intestines, entrails' [WP I: 125 ff., II: 335 f.; Pokorny: 311 ff.; PIET 226] < PEurAs. ***?e(j)nV* 'in; inside' [ND: N^o46; NOSTRET 1195].

E.5. PKCh. **'ano-* 'spring (season)' (PChuk. **ano-n* "'spring'; PKam. *'áwn'o-* 'spring') [Мудрак 2000: 22; KAMET 560; Fortescue 2005: 21 f.]

| PAlt. **ānu* 'moon; (moon cycle), year' [EDAL: 303; ALTET 78] (O. MUDRAK suggests **ānK/ɣu* [Мудрак 2011: 126]) | PEsk. **anija-* < **aneɣa-* 'moon, new moon' (> PIn. **anija(a-* < **aneɣa(a-) A*) [CED: 28; ESQET 1588; Мудрак 2011: 126] | PDr. **jānd-* 'year' [DED₂: N^o5153; DRAVET 464] < PEurAs. ***?anV* 'moon cycle, year' [NOSTRET 651; ESQET 1588; NIODET 759; Мудрак 2008: N^o21; Мудрак 2011: 126; Krougly-Encke 2023: N^oA.110].

E.6. PKCh. **'ɣɣj ~ *'ɣnɣj* 'South; warm wind' (PChuk. **ɣɣj, *'ɣɣj* 'fowl weather; warm wind (only in winter); East wind'; PSkam. **ɣɣj- ~ *nɣj-* 'South; South wind') [KAMET 974; Fortescue 2005: 346 (Chuk.); Мудрак 2008: 149]

| PAlt. **neɣni* 'East or South (wind); warm season' (PMong. **žeyü-n* 'East; left'; PTung. **neɣne* 'spring (season)'; PJar. **minami* 'South; South wind', cf. **minki* 'right') [EDAL: 1008; ALTET 1433] | PDr. **nēind-* 'day' [DED₂: N^o2920; DRAVET 1078] < PEurAs. ***neɣnV*

'midday; South' [NOSTRET 1054].

E.7. PKCh. **'b̄tm̄ɣl-* ~ **'əčm̄əɣl̄e-* 'near (adj., adv.)' (PChuk. **'b̄tm̄ɣl-*, **-t̄m̄t̄ɣ-*, **c̄əmc̄e-* (< **t̄əmt̄e-*), **-tm̄ə-n* 'to move up close, approach; near (adj.); nearer; the place near'; PKam. **t̄imal*, **t̄imel-* 'near (adj., adv.)' [Мудрак 2000: 139; KAMET 135; Fortescue 2005: 298]

▲ Following O. Mudrak [KAMET 135], can present a contamination of two roots, the 1st being akin to PAlt. **t̄'amu* 'to put into; together' (PMong. **tama-* / **tem-* 'to gather, collect'; PTung. **tama-* 'to gather, collect'; PKor. **t̄am-* 'to put (into a dish, etc.)'; PJap. **t̄um-* 'to put into, onto') [EDAL: 1399; ALTET 2303] | PFUg. **temV* 'full; to fill, stuff' [UEW: 520; URALET 1060] | PYuk. **oto(m)-* 'to close; shut; cramped, narrow, tight; to crowd' [JUKAET 459], cf. [NIODET 1251] | PSDr. **tumb-* 'crowd; abundant; full' [DED₂: N^o3331' DRAVET 1604] | ? Geor. *-tamam-* 'be bold; flourish well' < PEurAs. ***t'amV* 'fill; stuff' [ND: N^o2277; NOSTRET 844; NIODET 1251].

the 2nd, to PAlt. **č'omu* (~ *-io-*) 'to cram, stop up' (PKor. **č'am-*, **č'am-* 'to be closed, to shut; to hide; to submerge'; PJap. **tum-* 'to be crammed; to cram') [EDAL: 452; ALTET 2698] < PEurAs. ***č'omV* 'to cram; to be cramed'.

E.8. PKCh. **'əɣ^wl̄e-* 'on the shore, to the shore' (PChuk. **'əɣl̄e-* (-ɣɣ) (~ *b*) 'on the shore, to the shore; to rush to the shore (from seaside); to nomadize often; to move from the seashore to the tundra'; PSkam. **wana-* (< **wala-*) 'on the other riverside; in front of the river') [KAMET 954]

?φ | PUr. **kaLa* 'mountain' [UEW: 115; URALET 222] | PDr. **kal-* 'stone' [DED₂: N^o1298; DRAVET 488] | PIE. **k'al-* 'stone, rock' [WP I: 454 f.; Pokorny: 541-542; PIET 1564] | PKart. **k̄l-* 'rock' [ЭСКЯ: 113; EWK: 205; KARTET 574] / **k̄lde-* [Klimov 1998: 97] < PEurAs. ***k'alV* 'stone; rock' [ND: N^o1044; NOSTRET 272].

E.9. PKCh. **'ənk̄e-* 'now; then' (PChuk. **'ənk̄e* (-ɟep) 'long ago; then; after; afterwords'; PKam. **'ənki* 'now') [Мудрак 2000: 33 f.; KAMET 730; Fortescue 2005: 344]

| PTung. **n̄e* 'at once, today' [Цинциус 1: 614] | PFUg. **nüke* 'now' [SKES] | PEsk. **nu-ta-* < **no-ta-* 'new; young' [CED: 242; ESQET 43; Мудрак 2011: 497] | PIE. **nū* 'now' [WP II: 340; Pokorny: 770; PIET 819] < PEurAs. ***nu*, ***ne* 'now; new' [ND: N^oN^o1537, 1541; NOSTRET 572; NIVGET 2020].

E.10. PKCh. **'əp̄ə* 'vertical, steep; upright' (PChuk. **'əp̄ə-* 'steep, sheer; steep river bank, brae'; PKam. **ip̄* 'vertical; upright') [Мудрак 2000: 163; KAMET 1050; Fortescue 2005: 347, Chuk.; Мудрак 2008: 84]

| PAlt. **ōp̄'V* 'hill; heap of stones' [EDAL: 1059; ALTET 1602] < PEurAs. ***?op'V* 'hill'.

E.11. PKCh. **'unki* 'night' (PChuk. **'ənki* "'night'; PKam. **('i^wn)k^w-ink^wi* ", **'nik^wi-* 'night') [Мудрак 2000: 98; KAMET 47; Fortescue 2005: 189; Мудрак 2008: 71 cc.]

| PEsk. **unuy* (~ *-n-*) 'night; evening; to become night' [CED: 373; ESQET 644; Мудрак 2011: 804] (**unur* (*-a*) (~ *-n-*)); PAI. **unuy-ul* (*-Vy*) 'a long time ago' (< 'not tonight') [AD: 445] | PFS. **nukkV-* (~ *n-*) 'to sleep' | PIE. **nogh-* (PIH. **noghu-*) 'to get dark; to fall (of night)', **nok-t-* (PIH. **noghu-t-*) 'night' [WP II: 337 f.; Pokorny: 762; PIET 815] < PEurAs. ***nugV* ~ ***?ungV* (~ *-k'-*) 'to get dark; night' [Bengtson 1989: 37; ND: N°1540; NOSTRET 1466; Greenberg 2002: N°278; Krougly-Encke 2023: N°A.60a].

F. Animals, parts of animals.

F.1. PKCh. **'ačih'wjo* 'a small bird; green-winged (common) teal (чирок-свистунок) *Anas crecca* L.' (PChuk. **ač'ijzə-* 'green-winged teal; masked duck (масковая савка) *Oxyura dominica* L.; long-tailed duck, oldsquaw (морянка) *Clangula hyemalis* L.; common [European] pochard *Anas ferina* L. or red-crested pochard, rufous-crested duck *Netta rufina* Pallas (нырок)'; PKam. **č'iyčax* 'a small bird') [Мудрак 2000: 154 (Chuk.); КАМЕТ 787] | PAlt. **siuga* 'a k. of bird' [EDAL: 1288; ALTET 2070], cf. MKor. *soiroki* 'a k. of bird' | PEsk. **cayī-* < **cāyi-* 'plover; sandpiper' [CED: 62 f.; ESQET 1468; Мудрак 2011: 166 f.] | PYuk. **-cigee* 'Baikal teal *Anas formosa Georgi*; pochard' [sub Nikolaeva 2006: N°1817; JUKAET 1705] | ? PTel. **giž-* 'the weaver bird *Baya plocceus baya*' [DED₂: N°1608; TELET 798] (metath.?) | PSl. **ščegъль/ь* '(Eurasian, European) goldfinch *Carduelis carduelis* L.' [Фасмер 4: 498] < PEurAs. ***cigV* 'a k. of small bird' [Мудрак 2011: 167].

F.2. PKCh. **'alhiqo* 'aquatic bird' (PChuk. **atviqV* 'green-winged (common) teal (чирок-свистунок) *Anas crecca* L.'; masked duck (масковая савка) *Oxyura dominica* L.; long-tailed duck, oldsquaw (морянка) *Clangula hyemalis* L.; common [European] pochard *Anas ferina* L. or red-crested pochard, rufous-crested duck *Netta rufina* Pallas (нырок)'; PKam. **č'aqac* 'seagull (a k. of)') [КАМЕТ 1099; Мудрак 2008: 36] | PAlt. **lak'[a]* 'a k. of bird' [EDAL: 862 f.; ALTET 1394] | PEsk. **alyə-* ~ **aylə-* < **äl̥yə-* ~ **äl̥yə-* 'eider, long-tailed duck, oldsquaw' [CED: 21, 43; ESQET 1640; Мудрак 2011: 105] | PIE. **el-* 'a k. of bird (swan)' [WP I: 155; PIET 1145] < PEurAs. ***?al(H)V* (*-k'/q'V*) 'aquatic bird' [Мудрак 2011: 105].

F.3. PChuk. **(v)alpiž* "'plaice, flounder' [Мудрак 2000: 167; CHUKET 26; Fortescue 2005: 20] | PAlt. **p'ālā* 'field; level ground' [EDAL: 1120 f.; ALTET 1723] | PFUg. **pāIV* 'board' [UEW: 364; URALET 735] | PDr. **pal-* 'plain; valley' [DED₂: N°4016; DRAVET 1168] | PIE. **pAl[a]-*, **plā-* (PIH. **pAlH[a]-*) 'broad; flat; plain' [WP II: 90 f., 99 f.; Pokorny: 833 f.; Adams: 423, 427' Friedrich: 156; PIET 944], **pel-* 'field; plain' [WP II: 61 ff.; Pokorny: 805 ff.; PIET 903] | PKZ. **pīŋqel-* 'flat' [EWK: 62 f.; KARTET 814; Klimov 1998: 151] < PEurAs. ***p'alHV* 'flat; level' [MCCHЯ: 372; ND: N°1689, 1708, 1719; NOSTRET 239].

F.4. PChuk. **amto-* (~ *-ms̄-*, *e*, *a*) 'shell; empty shell' [CHUKET 2343]
| ? PIE. **mūs-* 'shell-fish' [WP II: 251 f.; PIET 2150] < PEurAs. ***muSV* ~ ***?amSV* 'shell'.
NB. Alternatively, cf. PDr. **ōd-* 'shell; tile' [DED₂: N^o1042; DRAVET 1129].

F.5. PChuk. **byti* " 'Siberian marmot *Marmota sibirica* Radde; grey (of dog)' [Мудрак 2000: 215; CHUKET 1429; Fortescue 2005: 337]
| PAlt. **ōjdu* 'a k. of small wild animal' [EDAL: 1054; ALTET 1575] | PIE. **udr-* 'otter' [WP I: 252 f.; PIET 1205] < PEurAs. ***wo(ŋ)TV* 'a k. of animal' [NOSTRET 1128].

F.6. PKCh. **čāmi-KV-* 'little mouse; lemming' (PChuk. **camьq* 'tarbagan *Marmota sibirica* Rudde'; PKam. **č'imь-* (*-k'ь-*) 'little mouse') [KAMET 173]
| PAlt. **č'āmro* 'a k. of small animal' (PTurk. **čārba-* (**čārma-*) 'squirrel; sable; marten'; PMong. **čindaga* 'white hare'; PTung. **čamduk-* 'mouse; tarbagan') [EDAL: 415 f.; ALTET 280] | PYuk. **camək* 'lemming' [JUKAET 1133] | PDr. **cund-* 'mouse; rat' [DED₂: N^o2661; DRAVET 198] < PEurAs. ***čVmV* (~ *c'-*, *č'-*) 'a k. of small animal' [ND: N^o305; NOSTRET 663; NIODET 74].

F.7. PKCh. **'əyurə-nik* 'wild beast' (PChuk. **yornik* 'wild beast; to hunt'; PKam. **'iyw'irnik* 'wild beast') [Мудрак 2000: 166: Chuk.; KAMET 502; Fortescue 2005: 90-91]

▲ The 2nd part is PChuk. **nike* 'something; this, something (substit.)' [CHUKET 879], but this is maybe a folk etymology.

| PAlt. **guri* (~ *-o-*, *-r-*, *-e*) (*-nV*) 'deer; game' [EDAL: 574 f.; ALTET 572] | PUr. **koj(e)-ra* 'male (dog, deer)' [UEW: 168] / **kojra* [URALET 336] | PDr. **gor-* 'deer' [DED₂: N^o2165; DRAVET 391], cf. PDr. **kur-* 'antelope; deer' [DED₂: N^o1785; DRAVET 691] | PIE. **g'hwēr-* 'wild beast' [WP I: 642-643; Buck: 137; Adams: 633 f.; PIET 399] < PEurAs. ***guri* (~ *-r-*) 'wild beast (male)' [MCCHЯ: 330; OCHЯ 1: 93; ND: N^oN^o663, 672; NOSTRET 1].

F.8. PKCh. **'əklāv* 'arctic [American] greyling *Thymallus arcticus* Pallas; coho [silver] salmon *Oncorhynchus kisutch* Walbaum' (PChuk. **əkcab* 'arctic [American] greyling'; PKam. **kisu-yus* " 'k. of salmon *Salmonidae* sp.') [Мудрак 2000: 71; KAMET 233; Fortescue 2005: 132, Chuk.]

| PAlt. **k'ula* 'k. of big fish' (PMong. **kalimu* 'whale'; PTung. **xol-sa* 'fish; boiled fish'; PJap. **kara-* 'plaice') [EDAL: 848; ALTET 1042] | PAL. **kula-may* 'Pacific right whale *Balaena glacialis* = ? [Atlantic, black] right whale *Eubalaena glacialis* Müller, and/or bowhead whale *Balaena mysticetus* L.' [AD: 247] (**-may-* 'big N, real N; to V greatly' [AD: 528 f.]) | / **kālā* [Janhunen 1977: 8; Sammallahti 1988: 538] | PSDr. **kol-* '(a k. of) fish' [DED₂: N^o2139; SDRET 1849], cf. PSDr. **kōl-* 'a k. of fish' [DED₂: N^o2241; SDRET 1929] | PIE **(s)kwal-* '(k. of) big fish, whale' [WP II: 541; Pokorny: 958; PIET 1050] | ? PKam. **k'wilx-in* 'a k. of fish'

[ITELET 1325; Мудрак 2008: 105] (←b Wak.?) < PEurAs. ****k'uIV** (~ q'-) 'k. of big fish; whale' [МССНЯ: 362; ОСНЯ 1: N°155; Bomhard 1994: N°330; Dolgopolsky 1998: N°73; 2004: N°14; ND: N°1030; NIODET 1394; Krougly-Encke 2008: N°1.3].

F.9. PKCh. ***'əliwē** 'wild reindeer' (PChuk. ***'əlye** " 'wild reindeer'; PKam. ***'lywə-lywi** " 'wils reindeer') [Мудрак 2000: 32; KAMET 625; Fortescue 2005: 340 f.]
| PAlt. ***ēIV(-k'V)** 'deer' (PTurk. ***elik** 'roebuck, wild goat'; PMong ***ili** 'new-born deer'; PTung. ***(x)elkēn** 'wild deer; domestic deer') [EDAL: 501; ALTET 425] | PFV. ***ältV** 'female animal: female deer, horse' [UEW: 609; URALET 1209] | ? PYuk. ***ilvə- O** 'reindeer; to graze reindeers; elk' [Nikolaeva 2006: N°566; JUKAET 145] (←b Chuk.?) | Malto *ilaru* 'the mouse deer' (if not metath. < ***iral-**) [DED₂: N°476; NDRET 298] | PIE. ***el[a]n-**, ***lān-** (PIH. ***e-**) 'deer' [WP I: 154 f.; Adams: 485; PIET 1132], ***alk'- / *elk'-** 'elk' [WP I: 151 f., 154 f.; sub Pokorny: 302 ff.; PIET 1131] | Svan *ilw*, dial. *il, hil* 'roe' < PEurAs. ****?elV** (~ -k'/q'-, -yw-) 'deer' [ОСНЯ 1: 272 f.; Nikolaeva 2006: N°566; ND: N°26; NOSTRET 628].

F.10. PKCh. ***'əmcəke-** (~ a) 'tit, titmouse' (PChuk. ***əmcəkeke** (~ a) 'tit'; PKam. ***mьč'ekal** 'tit') [KAMET 859]
| ? PJap. ***mit-** 'bird' (< ***mitV?**) [ALTET 2637] | PEsk. ***mətəb-** < ***mьтьб-** 'eider (raven, eagle)' [CED: 199; ESQET 225; Мудрак 2011: 426]; PAI. ***sa-** 'bird (in gen.), esp. duck', du. 'bird-skin parka' [AD: 342] (< PEskAI. ***məsa/a-** 'bird' [AD: 342; CED: 199]) | ?μ PYuk. ***-mə-dee**: ***ciiðə-mə-dee** 'bird; (Western, Eurasian) sky lark *Alauda arvensis* L.' [Nikolaeva 2006: N°288; JUKAET 935] | PIE. ***Ames-** 'blackbird' [WP I: 53 f.; Pokorny: 35-36; PIET 702] < PEurAs. ****mVcV** 'a k. of bird' [Мудрак 2011: 426].

F.11. PKCh. ***(ə)nyemə** (~ ***(ə)lyemə**) 'worm' (PChuk. ***ənyem** (~ -ly-) 'worm; snake'; PKam. ***xim** " (***lx-**), ***ximi-** 'worm') [KAMET 244; Fortescue 2005: 343 f.]
| PAlt. ***liamba** (~ **l̥-**, -o) 'a k. of big fish' (PTung. ***liamba-** 'salmon; fish'; PJap. ***nāma(n)tu** 'sheat-fish'; cf. Khak. *nomza* 'dace' (< ***jom-**), Tat. *jumba, žumba* 'burbot'; WMong. *nūmer* 'octopus') [EDAL: 874; ALTET 1207] | PEsk. ***nəməbja-** ***nьтьбja-** 'worm; snake; eel' [CED: 226; ESQET 362; Мудрак 2011: 478] < PEurAs. ****IVmywV** (~ **l̥-**) 'snake; eel' [Мудрак 2011: 478; NOSTRET 2047].

F.12. PKCh. ***'ənju** 'fish' (PChuk. ***'ənnə** " (~ -n̥-) 'fish'; PKam. ***'in'iw** (n?) 'fish') [Мудрак 2000: 34; KAMET 632; Fortescue 2005: 345; Мудрак 2008: 70 f.]

▲ Kamchukchean b→ PYuk. ***oŋʒoon** (~ ɔ-) 'fish (raw, edible)' [JUKAET 1690], cf. [NIODET 1638].

| PUr. ***ončV** 'a k. of salmon *Coregonus njelma*' [UEW: 339; URALET 677] / ***ančV** [Sammallahti 1979: 26] | ?φ PYuk. ***anil** 'fish' [JUKAET 131] < PEurAs. ****?Vn̥ʒV** 'fish' [NIODET 40; NOSTRET 1743].

F.13. PKCh. **'əv-i'olʲə-* 'brood; nest (lit. "content with eggs")' (PChuk. **(b)əy-*, **(b)əy-ʒocʲə-n* 'one brood (of animals): nest, twins'; PKam. **'a'w'-a'w'sy'z* 'nest') [KAMET 891; sub Fortescue 2005: N°379]

▲ The 2nd part is PKCh. **-i'olʲə-* 'receptacle, capacity' [KAMET 300].

| PAlt. **ebla* 'egg' [EDAL: 490; ALTET 411] | PEsk. **əva-* 'sit on eggs' [CED: 119; ESQET 1370; Мудрак 2011: 275 c.]; Al. (Atk.) *m-iya-* 'incubate, sit on, set, sit on eggs' [AD: 276] | ? PYuk. **ɔ(w)i-l ~ *əu-l* 'egg; hard roe' [Nikolaeva 2006: N°25; JUKAET 1047] (←b KCh.?) | PNDr. **uj-* (~ *o-*) 'put down; lay (eggs)' [DED₂: N°5549; NDRET 417] | PIE. **ōuyo-* 'egg' [WP I: 21 f.; Pokorny: 783 f.; PIET 2968] < PEurAs. ****?eywV* 'egg; sit on eggs' [Мудрак 2011: 276; Krougly-Encke 2023: N°A.24c].

F.14. PKCh. **'ətqəl* 'owl' (PChuk. **ətqəl#* 'polar owl; торбей (? k. of bird); skua, jaeger *Stercorarius gen.*; k. of godwit (black-tailed godwit *Limosa limosa L.*?); PKam. **'əsiqəl-i-* 'owl') [Мудрак 2000: 208; Chuk.; KAMET 576; Fortescue 2005: 301]

| PAlt. **it'VKV* 'a k. of (big) bird' [EDAL: 595; ALTET 616] < PEurAs. ****?it'VKV (~ -Q-)* 'a k. of bird'.

F.15. PKCh. **'yajkɣy^w* 'a k. of *Salmonidae*' (PChuk. **'yazkɣb* 'a k. of *Salmonidae*'; PKam. **k'ekx^wi*, **kajki^w* 'chum [dog] salmon, keta *Oncorhynchus keta Walbaum*') [KAMET 309] (< PKCh. **'yaj-* 'fish' + **'yɣv(-yɣ-)* 'stone'?)

| PAL. **qa-* 'fish' [AD: 289 ff.] | PDr. **kaj-* 'k. of fish' [DED₂: N°1252; DRAVET 430] < PEurAs. ****Kaj/HV (~ Q-)* 'a k. of fish' [Krougly-Encke 2023: N°A.29d].

F.16. PKCh. **'yɣɣjɣ-, *'ɣɣjɣ* 'fur; feather' [KAMET 508; Fortescue 2005: 64; Мудрак 2008: 37]

| PAlt. **k'ejra (~ -aj-)* 'bark' [EDAL: 782 f.; ALTET 996] | PEsk. **qajibu (~ -r-)* 'bark; upper layer' [CED: 275 f.; ESQET 515; Мудрак 2011: 599] | PFUg. **kere* 'bark' [UEW: 148 f.; URALET 290], **kāmā* 'bark; crust' [UEW: 138; URALET 270] | PYuk. **qa(a)r*, **-ya(j)r* 'torn skin; skin; bark' [Nikolaeva 2006: N°2018; JUKAET 81] | PIE. **(s)ker-*, **(s)kert-* 'bark; skin' [WP I: 422, II: 573 ff.; sub Pokorny: 938 ff.; PIET 1053] | Geor. *ḵrol-* 'outer shell of a nut / chestnut' < PEurAs. ****k'aj(V)rV, -e-* 'bark; skin' [MCCHЯ: 344; OCHЯ 1: N°217; Dolgopolsky 1998: N°94; Bomhard 1994: N°247; Greenberg 2002: N°26; ND: N°311; NOSTRET 209; Krougly-Encke 2009: N°1.2k; NIODET 348; ESQET 680; Krougly-Encke 2023: N°A.3].

F.17. PKCh. **'y^wekə-* 'magpie' (PChuk. **'yekə-tyə-n* 'magpie; a k. of duck *Anas sp.*'; PKam. **x^waki-kan* 'magpie') [Мудрак 2000: 77 f.; KAMET 307; Fortescue 2005: 325]

| PAlt. **g[io]jk'u* 'bird of prey [kestrel, windhover, hawk, falcon]' [EDAL: 552; ALTET 580] | PIE. **k'eig'h-* (PGerm. also to **keik-*) 'a k. of motley bird (thrush, magpie, jay)' [Fraenkel: 977;

PIET 3217] | PDr. ***kāk-** 'crow' [DED₂: N^o1425; DRAVET 549] < PEurAs. ****ge(j)k'(w)V (~ -q'-)** 'crow; magpie' [Krougly-Encke 2023: N^oA.6d].

F.18. PKCh. ***kanójo** 'goby; lamprey' (PChuk. ***kanažo=** 'goby'; PKam. ***q^wanoze-** 'lamprey (river)') [KAMET 1106]

| PEsk. ***əqnu-ləy ~ *qənu-ləy** < ***ьqno-ləy ~ *qьno-ləy** 'a k. of sea fish' [YUPET 860; Мудрак 2011: 869] | PDr. ***gend-** 'a k. of fish' [DED₂: N^o1947; DRAVET 381] < PEurAs. ****KVnV (~ Q-)** 'a k. of fish' [Мудрак 2011: 869; Krougly-Encke 2023: N^oA.29c].

F.19. PKCh. ***q^welywə** 'raven' (PChuk. ***yⁱelbə #** 'raven'; PKam. ***-qьlhь "** 'raven') [Мудрак 2000: 132; KAMET 308; Fortescue 2005: 326]

| PAlt. ***k^uīla (~ -o, -u)** 'a k. of big bird [duck, duck-hawk; raven, crow]' [EDAL: 851 f.; ALTET 1157] | PAI. ***qalqa-ɜa-ja-** 'raven; magpie' [AD: 304] | PUr. ***kulV(-kV)** 'raven' [UEW: 200; URALET 395] | PYuk. ***qu^larqa-, *qu^larqa- (~ k-)** 'seagull; snipe (river, a small one)' [Nikolaeva 2006: N^o2095; JUKAET 239] | PIE ***kolomb- (kh-)** 'pigeon' [WP I: 440 f.; Pokorny: 431, 805; PIET 534] < PEurAs. ****k^uīV (~ q'-)** 'a k. of big bird (raven, crow)' [ND: N^oN^o877, 1033; NOSTRET 704; NIODET 370].

G. Plants, part of plants, mushrooms.

G.1. PKCh. ***ьy^wti ~ *ьvti** 'leaf; bush' (PChuk. ***ьyⁱts-** " '(tree) leaf; flower; leaf of bog bilberry (bog blueberry, northern bilberry, western blueberry *Vaccinium uliginosum*); bush; plant (in comp.); to flourish, bloom (of leaves, flowers)'; PKam. ***ь^w(x)ti** 'leaf') [Мудрак 2000: 45 (conf. with 'green; blue'); KAMET 1240; Fortescue 2005: 337]

▲ Metathesis < ***ьty^wi ~ *ьtvi**.

| PAlt. ***iōtⁱikV** 'a k. of berry' [EDAL: 608; ALTET 651] | PEsk. ***iki[vt]uy** < ***iki[vt]uy** 'celery; plant species' [CED: 124; ESQET 1393; Мудрак 2011: 294 f.] (metath., infl. by ***uvtuy**) | PDr. ***ā(t)k-** 'leaf' [DED₂: N^o335; DRAVET 92] < PEurAs. ****?otⁱ-kV** 'a k. of berry'.

G.2. PChuk. ***ьks^ь-tkьn** 'top, summit; tree crown; top (of ridge); headwaters; headscarf' [Мудрак 2000: 181; CHUKET 675; Fortescue 2005: 152 (Chuk. with incorr. Kam.)]

| PAlt. ***k^uāre** 'edge' (PTurk. ***Kír** 'isolated mountain; mountain top, mountain ridge; steppe, desert, level ground; edge'; PMong. ***kira** 'edge; ridge'; PTung. ***xāri-** 'border; hem') [EDAL: 767 f.; ALTET 990] | PDr. ***kar-** 'bank; bridge; border' [DED₂: N^o1293; DRAVET 518], cf. ***kar-** 'rough' [DED₂: N^o1265; DRAVET 724] | PIE. ***kar- (kh-)** 'stone; thorn; hard; rough' [WP I: 355; Pokorny: 531 f.; PIET 445] | Geor. **kar^qkar-** 'high cliff' [KARTET 547] < PEurAs. ****k^uarV** 'edge; rock; steep bank' [ОЧЯ 1: N^o216; ND: N^oN^o1149, 1161; NOSTRET 643].

G.3. PChuk. ***ьlyā-** 'wild onion *Allium ursinum* L. (?); bird cherry, hackberry, hagberry, May

tree *Prunus padus* L.' [CHUKET 1715]

| PTung. **elu* 'onion' [Цинциус 2: 448]; Man. *elisun* 'grass; shoots' (←b unattested Mong.) [Цинциус 2: 447] | PDr. **ul-i* 'onion; garlic' [DED₂: N^o705; DRAVET 1641] | PIE. **āl-* 'a plant with edible tuber' [WP I: 90 f.; Pokorny: 33; PIET 69] < PEurAs. ***?elywV* (~ *-l̥w-*) 'onion, garlic' [ND: N^o132; NOSTRET 1209].

G.4. PChuk. **'ьnati* = 'alpine bistort *Polygonum viviparum* L. = *Bistorta vivipara* Delarbre = *Persicaria* v. *Ronse* Decr. (an edible root)' [CHUKET 1935]

▲ b → PEsk. **unata-* < **onata-* 'edible plant or root' [CED: 372; ESQET 230; Мудрак 2011: 800]

| PAlt. **ajt'a* 'a k. of fragrant plant' [EDAL: 306; ALTET 41] | PFP. **antV* (**ontV*) 'young grass; shoot' [UEW: 607; URALET 1205] | PDr. **andug-* 'clearing nut plant' [DED₂: N^o151; DRAVET 50] | PIE. **andh-* 'sprout; flower' [WP I: 45, 67; Pokorny: 40 f.; PIET 1286] < PEurAs. ***?ajTV* 'a k. of plant' [NOSTRET 988].

G.5. PKCh. **'ьnkola* 'hazel' (PChuk. **'ьнкъл(а)* 'hazel'; PKam. **k'wāli-* 'hazel') [Мудрак 2000: 99; КАМЕТ 237; Fortescue 2005: 190; Мудрак 2008: 87 f.]

▲ Old compound?

| PAlt. **'najo* 'nut' [EDAL: 1006; ALTET 1408] | PSDr. **nug-* 'kernel of unripe fruit' [DED₂: N^o3698; DRAVET 2130] | PIE. **k(')now-* 'nut' [WP I: 390 ff.; Pokorny: 558 f.; PIET 514] < PEurAs. ***'nawV* 'nut' [NOSTRET 1124].

G.6. PChuk. **'ьрконо "* 'mushroom' [Мудрак 2000: 110 (+ incorr. Kam.); CHUKET 1038; Fortescue 2005: 225 (+ incorr. Kam.)]

| PAlt. **p'ugu* (~ *-o*) (*-l̥V*) 'tinder; excrescence' (PTurk. **ugu-* 'tinder'; PMong. **huyula* 'tinder'; PTung. **pug(i)ju-* (or **pugula*) 'tinder, tree excrescence; convex') [EDAL: 1178 f.; ALTET 1846] | PEsk. **pujuV-* < **pojog-* 'kind of mushroom, puffball' [CED: 272; ESQET 686; Мудрак 2011: 574] | PFUg. **paŋka* 'a k. of mushroom (fly-agaric *Agaricus muscarius*), from which one makes narcotic substance' [UEW: 355; URALET 716] / **piŋka* 'mushroom' [Sammallahti 1988: 547] | PYuk. **paaj* '(tree-)fungus, polypore' [sub Nikolaeva 2006: N^o2118; JUKAET 1815] | PIE. **(s)pong-* (*-ph-*) 'sponge, tree-fungus; excrescence' [WP II: 681 f.; PIET 1091] | PKart. **bokw-* 'stump; chump, log; beehive; root; dug out tree root with ground on limbs' [Климов 1964: 52; EWK: 58 f.; KARTET 70] < PEurAs. ***p'U(n)γV* 'a k. of mushroom' [Bouda 1952: 7; Blažek 2007: N^o56; KARTET 70; ESQET 686; NIODET 1246; Мудрак 2011: 574].

G.7. PKCh. **'ьрпн̄* 'horse-tail, mare's tail' (PChuk. **'ьрпн̄-св̄ь-п* 'horse-tail'; PSkam. **p(')anu-* 'a k. of raspberry') [Мудрак 2000: 194 (Chuk.); КАМЕТ 888]

?φ | PAlt. **biola* 'a k. of bush, spiraea' [EDAL: 349 f.; ALTET 144] | PFUg. **pelna* (**polna*) 'a

k. of plant' [UEW: 370; URALET 751] | PKart. **blanc-* 'fern' [EWK: 58; KARTET 67] < PEurAs. ***bilwV* ~ ***bolV (-nV)* 'fern; horse-tail' [NOSTRET 1721].

G.8. PChuk. **ьpqaR* 'asp' [CHUKET 2163]

| PAlt. **ap'akV* (~ *-k'*) 'a k. of foliage tree' [EDAL: 310; ALTET 2730] < PEurAs. ***ʔap'(a)k'V* (~ *-q'*) 'a k. of foliage tree'.

G.9. PKCh. **'ьртл* 'bough, branch' (PChuk. **ртл # "*, **ртлль* 'bough, branch'; PKam. **'istil* '(lʔ)' bough') [Мудрак 2000: 202; KAMET 1131; Fortescue 2005: 259; Мудрак 2008: 75]

▲ Metathesis < **'ьртл*.

| PAlt. **ot'ó (-rV)* 'bushes; low trees' [EDAL: 1069; ALTET 2539] < PEurAs. ***ʔot'V (-rV)* 'bushes; branch, bough'.

G.10. PChuk. **cacaq* (~ *-e-*) 'toadstool' [CHUKET 1769]

| PAlt. **čótakV* (~ *-ukV*) 'pulp; mushroom; lip' [EDAL: 404; ALTET 251] | PEsk. **tu(v)ta-* < **to(v)ta-* 'labret; knar' [CED: 356; ESQET 1165; Мудрак 2011: 767] < PEurAs. ***cwot/Ca* (~ *č'w-*, *čw-*) (*-K/QV*) 'a k. of mushroom' [Мудрак 2011: 767].

G.11. PKCh. **'əfjə-nfi^wь* 'lingonberry, partridgeberry, mountain cranberry, cowberry *Vaccinium vitis-idaea* L.; Arctic bramble, Arctic raspberry *Rubus arcticus* L.' (PChuk. **ьузъ-гъь-п* 'lingonberry'; PKam. **'ija-nu-čh* 'Arctic bramble') [Мудрак 2000: 166, Chuk.; KAMET 892; Fortescue 2005: 88]

| PIE. **ag-* (~ **og-*) 'fruit; berry' [WP II: 173; Pokorny: 773; Adams: 109; PIET 824] < PEurAs. ***HVkV* (~ *-q-*) 'berry'.

G.12. PKCh. **'əfira* 'purple, rose willow' (PChuk. **əвта "*'purple, rose willow'; PKam. **č'é "*'purple, rose willow') [Мудрак 2000: 50; KAMET 637; Fortescue 2005: 273]

| PAlt. **iure* 'a k. of foliage tree' [EDAL: 621; ALTET 2753] < ***HurI* 'a k. of shrub'.

G.13. PKCh. **'əkvá-r* (~ *-θ*) 'branch, bough' (PChuk. **əkba-R* 'horn offshoot; bough; skin from the horns'; PKam. **kawa-č* (*γ^w*, *ь*) 'branch') [KAMET 249]

| PDr. **kav-* 'bifurcation' [DED₂: N^o1325; DRAVET 726] < PEurAs. ***kVbV* (~ *k'*, *q'*, *-γw-*) 'branch'.

G.14. PKCh. **'əmet-* (~ **'ьmít-*) 'to ripen; to redden' (PChuk. **əmet-* (~ *a*, **ьmít-*) 'to ripen'; PKam. **māsika-* (~ *-q-*) 'to redden, blush') [KAMET 1104]

| PKart. **mčwis-* 'to ripen; to grow up' [EWK: 251 f.; KARTET 690] / **č'wis-* 'to attain' [Klimov 1998: 313] < PEurAs. ***mVčwV* 'to ripen'.

G.15. PKCh. **'əmjə* 'rowan *Sorbus gen. L.*; rowanberry' (PChuk. **ъмъъ ~ *тъъъ "* (ə) 'rowan; rowanberry; edibe root of knotweed, knotgrass (*Polygonum polymorphum?*)'); PKam. **'imč-'imči "* (ǰ) 'rowan; rowanberry') [Мудрак 2000: 33; КАМЕТ 626]

▲ No found Eurasiatic parallels, but cf. Borean ones:

|| PSCauc. ***mVhV* 'berry' [SCCET 259]

|| PAlgwak. ***mi:* (~ *ä:*, *ü:*) 'leaf; berry' [Nikolaev 2015b: N°224; 2017: N°46 (2)]

< PBor. ****mVHV* 'a k. of berry'.

G.16. PKCh. **'əqrəl* 'kamchatkan dropwort *Filipendula kamtschatika*' (Chuk. **əqrəlki-* 'kamchatkan dropwort'; PKam. **qьri'l* 'kamchatkan dropwort') [Мудрак 200: 197 f.; КАМЕТ 1096]

?σ | PIE. **kermus-* / **kremus-* 'wild garlic' [WP I: 426 f.; Pokorny: 580- f.; PIET 497], **k'ermus-*, **kermus-* 'cherry-tree, bird-cherry tree' [WP I: 411 f.; PIET 511] < ? PEurAs. ****k'VrV* (~ *q'-*, *-r-*) 'a k. of plant'.

G.17. PKCh. **'ətné- ~ *'əčje- ~ *'əčne-* 'to grow up; plant; flower' (PChuk. **ətje-* 'to grow up; to push through; plant; shoot, sprout; flower'; PKam. **'it'ni-*, **č'ije-k'è-čhi*, **č'ine-k'è-čhi* 'to grow up (plants); flower') [Мудрак 2000: 35 (Chuk., conf.); КАМЕТ 823; Fortescue 2005: 299 f.]

| PKart. **cen-* 'to grow; to flourish (of plants)' [Климов 1964: 228; EWK: 461; KARTET 134] / **cen-* / **cn-* [Klimov 1998: 271] < PEurAs. ****cVNV* 'to grow; to flourish'.

G.18. PKCh. **'əvq'ij-* 'to mature' (PChuk. **əyšij-* (~ *-yš-*) 'to mature; to ripen; very auick'; PKam. **'is'i-* 'to mature, to ripen, to be in time; to intensify') [Мудрак 2000: 150, Chuk., conf.; КАМЕТ 761]

| PAlt. **buč'o* (~ *-o-*) 'to dry on fire, under the sun' [EDAL: 376; ALTET 198] | PFP. **posV* 'hot; heat (n.); sweaty; sweat' [UEW: 738; URALET 1522] < PEurAs. ****bVc'V* (~ *-c'-*) 'to cook' [Иллич-Свитыч 1968: N°11.3; МСНЯ: 338; ND: N°N°1809, 1813; NOSTRET 112].

▲ Otherwise, PFP. **počV* 'dry; to dry' [URALET 1513].

NB. Cf. ?σ PAlt. **p'iač'o* 'acid; salty' [EDAL: 1146; ALTET 1798] | PFUg. **pišä-* 'to roast, cook' [UEW: 385; URALET 786] / **pi/ešä-* [Sammallahti 1988: 547].

H. Human being.

H.1. PChuk. **ьузо-* 'servant, slave; bell-hop, messenger; to commit (to send with commition)' [CHUKET 2264]

▲ Metathesis < **ьзүо-*.

| PAlt. **iuga* 'child; son' [EDAL: 612; ALTET 2490] | PIE. **jowen-* 'young' [WP I: 200 f.; Pokorny: 510 f.; PIET 403] < PEurAs. ****juy(w)V* 'child; young' [NOSTRET 1741].

Н.2. РКЧ. **'ьрĭ-(lju)* 'baby; son' (PChuk. **'əppə-(lʒu-), *pĭ-* 'little; calf (till 1 year-old)'; PKam. **p'ĕ-ĉ, *p'ĕ-* 'son; child') [Мудрак 2000: 34 f.; КАМЕТ 635; Мудрак 2008: 153 f.; Fortescue 2005: 347 (Chuk., incorr. Kam.)], cf. PChuk. **ро/ьзть-* 'village of Paren' (= "guy, lad") (< PKam. **'ьројѣ-*).

▲ b→ PYup. **арѣва-* < **арева-* A 'younger brother' [YUPET 280; Мудрак 2011: 846] | PAlt. **роју (~ p'~)* 'child; young (of animals)' [EDAL: 1103; ALTET 1672] | PEsk. **pija-Γа-* < **pijä-γä- ~ *peja-βа-* 'young of animal; child' [CED: 258; ESQET 766; Мудрак 2011: 558] | PFUg. **pojka* 'son; child' [UEW: 390; URALET 796] / **poji* [Sammallahti 1988: 541] | PYuk. **рəo(гə)- (~ -əə-)* 'slave, servant; orphan; widower' [JUKAET 1123] | PDr. **pai-* 'boy; child; calf' [DED₂: N^o3939; DRAVET 1161] | PIE. **paw-* 'few; small' [WP II: 75 f.; Pokorny: 842 f.; PIET 2023] < PEurAs. ***powjV (~ p'~)* 'small; child' [MCCHЯ: 360; ND: N^o1655; NOSTRET 319; Мудрак 2011: 558; NIODET 781].

Н.3. PChuk. **ьqRĭ(k)* 'Kerek; Koryak; a mythical people, that lived once to the North of Chukotka and leaved over the sea after struggling against the Chukches' [CHUKET 2000] | PAlt. **k'iure* 'guest; neighbor' (PTurk. **Kir-del'* 'a neighbour who lives in the same house'; PMong. **kür-* 'son-in-law, bridegroom; brother-in-law'; PTung. **(x)üremē-* (~ *-i-*) 'to visit, come as a guest') [EDAL: 824 f.; ALTET 1087] < PEurAs. ***k'uri (~ q'~)* 'guest; neighbor'.

Н.4. РКЧ. **'əqlik* 'man; male' (PChuk. **əqLi-k* 'man; male; PKam. **'ihlĭh, *'ihlih* 'man') [Мудрак 2000: 35; КАМЕТ 62; Мудрак 2008: 62 f.]

▲ Cf. PKam. **qule-ĉ (~ k-)* 'lieder, chief (of tribe)' [ITELET 277; Fortescue 2005: 180 f.] | PAlt. **k'iule* 'person' [EDAL: 818; ALTET 1072] | PIH. **(s)k^wel-* 'crowd; people' [WP I: 517; Pokorny 1959: 640; Tischler: 623 f.; PIET 1047] | ?σ PKart. **qal-* 'penis' (but Svan *qlaw-* 'male child') [Климов 1964: 212; EWK: 406; KARTET 863; Klimov 1998: 243 f.] < PEurAs. ***[q']ulI* 'person' [MCCHЯ: 361; ND: N^o1032; NOSTRET 311]. NB. Cf. PAlt. **kūIV* 'servant, slave' [EDAL: 735 f.; ALTET 942] < PEurAs. ***kulV ≈ **?uklV (~ q)* 'man; servant'.

Н.5. РКЧ. **η^wĕv- (-fie-)* 'woman; feminine' (PChuk. **ηebβe-n, *ηeb-* 'feminine; wife'; PKam. **ηĭ-ĉ* 'wife; female') [Мудрак 2000: 101; Fortescue 2005: 196; КАМЕТ 57; Мудрак 2008: 146 f. (+ incorr. Kam.)]

| PAlt. **neĭju* 'female relative (sister or brother's wife)' [EDAL: 970 f.; ALTET 1434] | PEsk. **neĭju-* 'grandmother; old woman' [CED: 228; ESQET 370; Мудрак 2011: 481] | PUr. **nijä* 'woman; female' [UEW: 305 f.; URALET 605] / **nixi* 'woman' [Janhunen 1977: 94; Sammallahti 1988: 539] | PDr. **nānd-* 'female relative' [DED₂: N^o3644; DRAVET 1000] | PIE. **(e)yena-t-er-* 'brother's wife' [WP I: 207 f.; Buck: 126; Pokorny: 505 f.; PIET 410] < PEurAs. ***neĭwV (~ n-)* 'woman; female-in-law' [MCCHЯ: 361; OCHЯ 2: N^o315; ND: N^o1607;

NOSTRET 337; Мудрак 2011: 481, 909; Krougly-Encke 2023: N^oA.99].

H.6. PKCh. **taγ¹wλo'm* (~ **taγ¹wλ'mz*) 'nomad, reindeer herdsman; enemy' (PChuk. **caγsɕba* 'reindeer breeder, reindeer breeder Koryak; rude, evil, impudent, headstrong, arbitrary'; PKam. **taγ¹wlu-m* 'Koryak; ennemy') [Мудрак 2000: 132; KAMET 124; Fortescue 2005: 43 f. (Chuk.); Мудрак 2008: 196]

| PAlt. **dāgi* 'enemy; alien' [EDAL: 457; ALTET 348] | PEsk. **tabu* 'human being (mostly allegorical)' [CED: 333, 334; ESQET 535; Мудрак 2011: 704] < PEurAs. ***dagV* '(alien) human being' [ESQET 535; Мудрак 2011: 704; Krougly-Encke 2023: N^oA.51].

I. Family, relationship terms.

I.1. PKCh. **'appa-* 'grandfather; elder relative' (PChuk. **appa # ''* 'grandfather; father (priest); father'; PKam. **'epe* 'father; godfather') [Мудрак 2000: 30; KAMET 733; Fortescue 2005: 36 f.; Мудрак 2008: 49 f.]

| PAlt. **ap'a* 'father' [EDAL: 310; ALTET 80], **ep'V* 'grandfather' [EDAL: 515; ALTET 443] | PEsk. **apa* < **āpā* ~ **apa* 'grandfather; father' [CED: 36; ESQET 1787; Мудрак 2011: 138] | PDr. **ap-* 'male relative' [DED₂: N^o156; DRAVET 56] | PIE. **pa-t-er-* 'father' [WP II: 4; Pokorny: 829; Adams: 365; PIET 846] | PKZ. **pāp-* 'grandfather' [Мудрак 2000: 152; EWK: 271; KARTET 816] < PEurAs. ***?ap'V* 'father', ***?ep'V* 'grandfather' [dub. in ND: N^o942; NOSTRET 652].

I.2. PChuk. **azna* 'grandmother (paternal or maternal) (voc.); spider' [CHUKET 1713]

| PAlt. **ēna* 'mother; elder sister' [EDAL: 510; ALTET 432] | PAI. **ni-* 'paternal aunt, a sister of one's father' [AD 283] | PUr. **ana* 'wife of an elder relative; ? mother' [UEW: 10; URALET 15] / PFUg. **ana* 'siter-in-law' [Sammallahti 1988: 542], PUr. **anV(-ppV)* 'mother-in-law' [UEW: 9; URALET 14] / **ina(jppi)* [Janhunen 1981: 39, 40] / **ina-* [Sammallahti 1988: 536] | PDr. **an-* 'elder brother' [DED₂: N^o131; DRAVET 54] | PIE. **an-* (PIH. **H-*) 'grandmother' [WP I: 55 f.; Pokorny: 36 f.; Tischler: 24, 145; PIET 43] < PEurAs. ***HanV* (~ *?-*) 'mother; elder sister' [NOSTRET 1011].

NB. Cf. PKCh. **'ənine-* 'elder brother or sister' [KAMET 1013].

I.3. PChuk. **atī* 'daddy' [CHUKET 1832]

| PAlt. **ét'e* 'elder relative' [EDAL: 523 f.; ALTET 453] | PDr. **at-* 'female relative (father's sister?)' [DED₂: N^o142; DRAVET 76] | PIE. **ata*, **atta* (PIH. **a-*) 'father' [WP I: 44; Buck: 103; Tischler: 92; PIET 2796] < PEurAs. ***?at'V, -e-* 'father; elder relative' [NOSTRET 671].

I.4. PKCh. **'ɫlaɦio (-ɦiɦi)* 'mother' (PChuk. **'ɫlavz* 'mother; step-mother; grandmother'; PKam. **'il'wafih-shɕ*, **'ileɦiə-shə* 'mother') [Мудрак 2000: 84 f.; KAMET 603; Fortescue 2005:

339; Мудрак 2008: 64]

The 1st part is the same as in PKCh. **'əlləy-* 'father', q.v.;
the 2nd part: *?φ* PAlt. **'ujō* 'relation (relative, kin)' [EDAL: 1486; ALTET 2497] | PDr. **av-ai*
'mother; woman' [DED₂: N^o273; DRAVET 82] | PIE. **aw-* (PIH. **HauHo-*) 'grandfather; uncle
(mother's brother)' [WP I: 20 f.; Pokorny: 89; Tischler: 260 ff.; Adams: 56; PIET 16] < PEurAs.
***?VHwV* 'relation' [NOSTRET 772].

I.5. PKCh. **'əlləj* 'aunt' (PChuk. **'əcca-ʒ(u) (-H-?)* 'aunt; cousin aunt'; PKam. **li(j)-sxi-* 'aunt') [Мудрак 2000: 278 (Chuk.); KAMET 604; Fortescue 2005: 338]
| PAlt. **acV* 'elder relative, ancestor' [EDAL: 271 f.; ALTET 55] | PEsk. **acuka-* < **acokā-*
'aunt by marriage' [CED: 4; ESQET 1577; Мудрак 2011: 70], **acay* < **äcāy* 'paternal aunt'
[CED: 2; ESQET 7; Мудрак 2011: 67]; PAI. **asaya-* 'cross-cousin (father's sister's or mother's
brother's son or daughter' [AD: 97] (< PEskAl. **asay* 'aunt; cross-cousin') | PUr. **äcä* 'father'
[UEW: 22; URALET 35] | PYuk. **ecee* 'father' [Nikolaeva 2006: N^o403; JUKAET 71] | PDr.
aʒʒ-* 'father; ancestor' [DED₂: N^o55; DRAVET 1857] < PEurAs. *?acwV* 'father; elder
relative; ancestor' [ND: N^o797; NOSTRET 984; NIODET 234; Мудрак 2011: 67].

I.6. PKCh. **'ənlə-* 'woman from twin genus' (PChuk. **əntə-* 'twin genus: son-in-law,
daughter-in-law'; PKam. **'anli-*, **'ansi-* 'daughter-in-law, brother's wife') [Мудрак 2000: 163
(Chuk.); KAMET 950; Fortescue 2005: 346 (Chuk.)]
| ? PIE. **snus-* 'daughter-in-law' [WP II: 701 f.; Pokorny: 978; PIET 1100] < ? PEurAs.
***nUcV* (~ *c'-*, *š-*) 'daughter-in-law'.

▲ Otherwise Indo-European can be ←b PNcauc. **nusa* (~ *-o-*) 'daughter-in-law' [NCED:
1994; CAUCET 1745].

I.7. PKCh. **'əlləy^wju* 'nephew' (PChuk. **'əlləbʒo* 'nephew; grandson'; PKam. **luy^wusxi* (<
**luy^wsu-sxi*) 'nephew') [Мудрак 2000: 80; KAMET 606; Fortescue 2005: 340]

▲ Chukchean b → PYuk. **läibə* 'descendant, offspring; to have off spring; younger, last (by
age); little (affectionately, of child)' [JUKAET 1318] and (?) PNiv. **ruv(ŋ)* 'brothers and
sisters; children of brothers or sisters and cousins; cousin; nephew, niece' [NIVGET 1209], cf.
[NIODET 994].

L.8. PKCh. **'əlləy^wju* 'nephew' (PChuk. **'əlləbʒo* 'nephew; grandson'; PKam. **luy^wusxi* (<
**luy^wsu-sxi*) 'nephew') [Мудрак 2000: 80; KAMET 606; Fortescue 2005: 340]

| PAlt. **niōge* 'son-in-law; nephew' [EDAL: 1014 f.; ALTET 1484] (O. Mudrak [Мудрак
2011: 488] adds PTurk. **jubga* 'bastard, adopted son' [TURKET 781], PMong. **niyu-n* ~
**noyu-n* 'child; boy' [MONGET 689], extr. from PAlt. **nebi* 'new' [EDAL: 964; ALTET 1418],
but extracts Pjap. **mukua*) | PEsk. **Nuji-*, **Nusə-* (*-r- ~ -l-*) < **Noje-*, **Нобь-* (*-r- ~ -l-*) 'parent
of child's spouse' [CED: 236; ESQET 407; Мудрак 2011: 487 f.] | *?φ* PIE. **nepo-t-er-*, *-der-*

'grandchild; nephew (sister's son)' [WP II: 329 f.; PIET 813] < PEurAs. ****nowyI** 'nephew' [ND: N°1544; NOSTRET 1464].

I.9. PKCh. ***ənine-** 'elder brother / sister' (PChuk. ***ənine-txə-n** 'elder brother / sister; sister (for a sister) (voc.)'; PKam. ***nā(w)n'a** 'elder sister; nurse') [Мудрак 2000: 162, Chuk.; KAMET 1013; Fortescue 2005: 344, Chuk. + incorr. Kam.]

| PAlt. ***əna** 'mother, elder sister' [EDAL: 510; ALTET 432] | PUr. ***ana** 'elder female relative' [UEW: 10; URALET 15], PFP. ***enā** 'mother' [UEW: 624 f.; URALET 1241] | PYuk. ***enee-** 'mother' [Nikolaeva 2006: N°467; JUKAET 27] | PDr. ***an-** 'elder brother' [DED₂: N°131; DRAVET 54] | ? PGerm. ***aj-bī** 'mother' (merger with PEurAs. ****Haja** 'mother, elder female relative'?) < PEurAs. ****ʔenV** (~ **-a-**, **-n-**) 'elder female relative' [Bomhard 1994: N°454; Fortescue 1998: 144, 152; Nikolaeva 2006: N°467; NOSTRET 1011].

L.10. PKCh. ***əŋju** 'younger brother' (PChuk. ***əŋta-ŋju** 'younger brother or sister; sister (for a sister) (voc.)'; PSkam. ***-ns: *ki-ns** 'younger brother') [sub Иудрак 2000: 86; KAMET 605; Fortescue 2005: 340, Chuk. + incorr. Kam.]

| PUr. ***wäje** 'son-in-law, bride-groom' [UEW: 565; URALET 1148] / ***we/äjiw** [Janhunen 1977: 114; Sammallahti 1988: 541], ***wantV** 'relative (through marriage)' [UEW: 557; URALET 1130] | PDr. ***van-** 'elder brother's wife' [DED₂: N°5251; DRAVET 1716] | PSl. ***vьnūkь** 'grandchild' (b→ Lit. *anūkas* 2 a.p. id.) [Фасмер I: 328 f.] < PEurAs. ****wajV** 'a relative' [ND: N°2494; NOSTRET 1616].

J. Parts of body, body functions, senses.

J.1. PKCh. ***'aččəq-la-** (~ **'aļļiq-**) 'to sneeze; to cough' (PChuk. ***acciq-la-** (***accaq-la-**) 'to sneeze'; PKam. ***'aččik]ɫl-** 'to cough') [KAMET 552; Fortescue 2005: 15]

| Alt.: PTurk. ***aksir-** (***agsir-**) 'to sneeze' [ЭСТЯ 1: 194 f.]; Bur. *jogšo-* 'to ache, nag'; PTung. ***iagsi-** 'to sneeze' [sub EDAL: 597 f.; ALTET 631] | PYup. ***aqəcɟV-**, ***aqəc-tə-** ? < ***aqьcɟV-**, ***aqьc-tь-** ? A 'to sneeze' [CED: 39; ESQET 166; Мудрак 2011: 846] | PFUg. ***kicnä-** 'to sneeze' [UEW: 662; URALET 1323] / ***kišnä-** [Sammallahti 1988: 552] | PYuk. ***ceg-nu-** 'to sneeze' [Nikolaeva 2006: N°208; JUKAET 1122] | ?φ PIE. ***ksewə-**, ***sk-** 'to sneeze' [WP II: 85, 551; Pokorny: 953; PIET 1599] | PGZ. ***cxi(n)k-** 'to sneeze' [KARTET 154; Klimov 1998: 276] < PEurAs. ****k'ic(x)V** ≈ ****ʔak'(V)ci** (~ ****cxik'V**) 'to sneeze' [Мудрак 2011: 846].

▲ Kamchukchean, Yukaghiric and Karto-Zanic items represent a metathized variant.

J.2. PChuk. ***azma-Lqɫl** 'brachial bone; femur' [Мудрак 2011: 154; CHUKET 55; Fortescue 2005: 17]

| ?φ PAlt. ***eysV** 'shoulder; back part' [EDAL: 511; ALTET 437] (sec. ***-ɟ-**?) | PUr. ***wamsV** 'croup; loin' [UEW: 556; URALET 1127] | PIE. ***oms-** 'shoulder' [WP I: 178; Pokorny: 778;

Adams: 43; PIET 828] < PEurAs. ****?emsV** (~ *w-*) 'shoulder' [Dybo: 1989, 1996; ND: N°2592; NOSTRET 791].

NB. Cf. PAlt. ***omurV** 'shoulder, collar bone' (PTurk. ***omur** 'sholder'; PMong. ***omur-** 'callar bone, clavicle') [EDAL: 1052; ALTET 1572].

J.3. PChuk. ***aznam-** 'fat too much (of taste)' [CHUKET 1626]

▲ With the neg. pref. ***a-**.

? | ?φ PFP. ***jimä(-lä)** 'malt; sweet' [UEW: 634; URALET 1261] (dissim. < ***nimä?**) | PYuk. ***nam-ya-** 'smack one's lips; champ' [Nikolaeva 2006: N°1362; YUKAET 831] | PIr. ***namaθ-ka-** 'salt' (Pers. *namak*, Ishk. *nəmēyθ*, Munj. *nəmālyo*) (hardly linked to OInd. *lavana-* id. [PIET 3267]) < ? PEurAs. ****najmV** (~ *n-*) 'sweet; tasty' [NIODET 1316].

J.4. PChuk. ***ar- ~ *ir- (*bar-)** 'to be ill, sick; illness; infection; to be infected' [CHUKET 98] | PKart. ***yar-** 'to die' [EWK: 385; KARTET 421] < PEurAs. ****yarV** (~ *-r-*) 'to be ill; to die'.

NB. Cf. PAlt. ***arV** 'witchcraft, craft' [EDAL: 313 f.; ALTET 53] | PFUg. ***arpa** 'prediction; sorcery; lot' [UEW: 16; URALET 25] < PEurAs. ****HarV** 'magic' [MCCHЯ: 344; OCHЯ 1: N°126; ND: N°78; NOSTRET 203].

J.5. PKCh. ***'čvō(-čvo-)** 'chicken-pox, smallpox; infection' (PChuk. ***'cbacъb-**: ***ina-cbacъb-** (~ *-cy-*) 'infectious disease'; PKam. ***čisъ'nb'η** (~ ***čisъ-no-η**) 'chicken-pox, smallpox') [Мудрак 2000: 146; KAMET 793]

| PSDr. ***Sibb-** 'a k. of spot on the body; smallpox' [DED₂: N°2536; SDRET 2164] < PEurAs. ****C/SVbV** 'smallpox'.

J.6. PKCh. ***'byrohъ-** 'to give birth' (PChuk. ***'byrovъ-**, ***-byro-** 'to give birth (animals); spring (season)'; PKam. ***'roha-**, ***'ro-sxъ-** 'to sprawn; descendant') [Мудрак 2000: 166 (Chuk.); KAMET 599; Fortescue 2005: 91 (Chuk. + incorr. Kam.)]

| PUr. ***kārte-** 'to hold; to bear' [UEW: 652; URALET 1301] | PIE. ***g'her[e]-**, ***g'hrē-** 'to bear; to take; to make use' [WP I: 603 f.; PIET 1693] < PEurAs. ****gIrHV** 'to bear; to give birth' [NOSTRET 1972].

J.7. PChuk. ***'byco** "'eruption, rash' [CHUKET 2273]

| PAlt. ***k'iuču** 'to scrape; claw, sharp stick' [EDAL: 813 f.; ALTET 1073] | PUr. ***kinče** (***künče**) (~? ***kiče** (***küče**)) 'nail; fingernail; claw' [UEW: 157; URALET 311] / PFU. ***künci** [Sammallahti 1988: 544] | PDr. ***kazž-** 'scab, itch; to scratch' [DED₂: N°1104; DRAVET 541] | PIE. ***gh(w)azdh-** 'pointed stick' [WP I: 541; PIET 363] (+ PSl. ***gvozď** 'nail'), ***g(')hast-** 'stick' [WP I: 541; PIET 361] | PKZ. ***kwencx-** 'to split' [Климов 1964: 111, 145 c.; EWK: 199; KARTET 621] < PEurAs. ****k'iču ~ **k'uči** 'to scrape, scratch; nail' [ND: N°N°907, 1003, 1090; NOSTRET 949].

J.8. PKCh. **'ɣʷto-* 'rib' (PChuk. **ɣto-* 'rib'; PKam. **xʷuto-* 'rib') [KAMET 521; Fortescue 2005: 92]

?φ | PAlt. **k'asa* 'place between limbs' [EDAL: 769; ALTET 991] | ? PFUg. **kaska* 'sacrum' | PNDr. **qōcl* 'bone' (< PDr. **kōc-*) [DED₂: N^o2180; DRAVET 647] | PIE. **kost-* 'bone; rib' [WP I: 464; Pokorny: 616; Buck: 32; PIET 568] | Geor. *koč-* 'ankle' < PEurAs. ***k'aCV* 'bone' [OCHЯ 1: N^o219; ND: N^o999; NOSTRET 214].

J.9. PChuk. **ɣʷo-* 'to smell (tr., intr.)' [CHUKET 277]

| PAlt. **iunŋu* (~ *-a*) 'to breathe; to smell' (PTurk. **in-tik* 'to breathe heavily'; PMong. **(h)onŋuli-* 'to gasp, breathe heavily'; PTung. **unŋu-* 'to smell') [EDAL: 620; ALTET 667] < PEurAs. ***junŋu* (~ *-i-*) 'to smell'.

J.10. PKCh. **'ɣja ~ *jaqa "* 'nose' (PChuk. **ɣaqa "* ~ **ɣɣa "* 'nose; muzzle of an animal; nostril; rod ?, middle course (= in the bow of the boat)'; PKam. **qajɣa* 'nose') [Мудрак 2000: 174; KAMET 1214; Мудрак 2008: 159]

| PYuk. **jogu-l* (~ *ö*) *O* 'nose; cap' [Nikolaeva 2006: N^o714; JUKAET 48] | ?φ PKZ. **nik-* 'facial protrusion' [EWK: 265 f.; KARTET 742] / **nikel-* 'snout' [Klimov 1998: 142 f.] < ? PEurAs. ***[n]Vk'V* 'snout'.

J.11. PKCh. **'ɣma-* 'pelvis; hip' (PChuk. **ɣma=* 'hind deer's hip'; PKam. **aŋ'a-n* (~ *'ɣ-*) (*ŋʷ, nʷ*) 'pelvis; buttock') [Мудрак 2000: 37; KAMET 612]

| PYup. **aŋqə-* < **aŋqɣ-* *A* 'hip, thigh' [YUPET 260; Мудрак 2011: 845] | PCDr. **vanŋel* 'calf of leg' (< **van-*) [DED₂: N^o5249; DRAVET 1962] < ? PEurAs. ***ʷaŋHV* (~ *w-*) 'thigh; calf (of leg)'.

J.12. PKCh. **'ɣpaɣʷ-* (~ *-v*) 'to drink; to swallow' (PChuk. **'ɣpab-* 'to drink; to drink broth, eat soup; to be thirsty; to drink, pressing the mouth to the river'; PKam. **p(ʷ)paɣʷ-*, **'ilpa(ʷ)-* 'to swallow; to drink') [Мудрак 2000: 37; KAMET 418; Fortescue 2005: 151]

| PAlt. **ōp'a* 'to drink; to inhale' [EDAL: 1057; ALTET 1601] | PYup. **upəja* < **upəjä* ~ **opəja* *E ~ A?* 'lip; sea peach; ascidian' [CED: 383; YUPET 1572; Мудрак 2011: 949] | PNDr. **op-* 'to wet; soft' [DED₂: N^o981; DRAVET 2131] | PIE. **ap-* (PIH. **H-*) 'river, stream; bank, shore' [WP I: 46 f.; Buck: 30; Pokorny: 51 f.; Tischler: 159 f.; Adams: 144; PIET 1264] < PEurAs. ***ʷop'V* (~ *H-*) 'to drink; water' [ND: N^o1876; NOSTRET 728; Мудрак 2011: 949; Krougly-Encke 2023: N^oA.94c].

NB. Cf. var. PIr. **vap-* 'to strew' [WP I: 256 f.; Pokorny: 1149] | PSam. **waptá/ɣ-* 'to pour (out); to overturn' [Janhunen 1977: 172] < PEurAs. ***wVPV* 'to pour, strew' [ND: N^o2506; sub NOSTRET 728].

J.13. PKCh. **'bri-ol* 'pus' (PChuk. **briʒol* 'boil; pus; fester'; PKam. **'izi(w)q'al* 'pus; boil') [Мудрак 2000: 124; КАМЕТ 491; Fortescue 2005: 257]

▲ Metathesis < **'bri-*.

| PAlt. **k'iri* 'dirt; dirty' [EDAL: 791 f.; ALTET 1035] | PIE. **k'erən-*, **k'erəm-* 'caustic liquid (alkali, urine)' [WP I: 463; Pokorny: 615; PIET 468] < PEurAs. ***k'irV* (~ *q'*-) 'dirt' [NOSTRET 1152].

J.14. PKCh. **čalpə-* 'to breathe one's last' (PChuk. **cacrə-* (~ *a*) 'to breathe one's last; to pull the trigger of the trap'; PKam. **čispi-* 'terrible, horrible') [Мудрак 2000: 157 (Chuk.); КАМЕТ 903; Fortescue 2005: 42]

| PAlt. **želo* 'weak; quiet' (PTurk. **jali-* 'to be lazy, emaciated, weak, quiet'; PMong. **žalka-* 'to be lazy; lazy'; PTung. **žel-* 'to become quiet (of a sound), hidden; to miss'; PJap. **das-* 'quiet; easy') [EDAL: 1533 f.; ALTET 2591] | PIE. **(s)telə-* 'to be quiet, silent' [WP I: 742 f.; Pokorny: 1019; PIET 1833] | Geor. *-zal-* 'be weakened' < PEurAs. ***žwei(Hw)V* 'weak; quiet' [ND: N°2727; NOSTRET 1650].

J.15. PKCh. **č(ʒ)vъ* 'bruise' [Мудрак 2000: 158 (Chuk.); КАМЕТ 804]

| PAlt. **segu* 'healthy; blood' [EDAL: 1224; ALTET 1976] | PIn. **cukvait-* 'be healthy, doing well' [CED: 95; INUPET 1918; Мудрак 2011: 972] | ?σ PUr. **saksa* 'fat, grease' [UEW: 458; URALET 938], cf. POBUg. **čökəs* 'bear's blood' | PYuk. **cee-mə-* 'blood; vein, artery' [Nikolaeva 2006: N°249; JUKAET 1137] | PIE. **as-er/n-*, **es-er/n-* (PIH. **esH-er/n-*) 'blood' [WP I: 162; Pokorny: 343; PIET 249], **sān-* 'healthy; happy' [WP II: 445, 452; Pokorny: 880; PIET 987] | ?φ PKart. **zixl-* 'blood' [Климов 1964: 87; EWK: 144 f.], [EDKL: 59], [KARTET 1215] (metath. and assim. < **siys-l-*?) < PEurAs. ***sey(w)V* ≈ ***esy(w)V* (*-sV*) 'blood' [МССНЯ: 345; ND: N°2694; NOSTRET 344; NIODET 91; Мудрак 2011: 972; Krougly-Encke 2023: N°A.9b].

J.16. PKCh. **'əčməlu-* (~ **'əqməlu-*) 'to lick' (PChuk. **ətməlu-* (*-Rm-*) 'to lick (sth.)'; PKam. **č'iml-k-* 'to lick') [Мудрак 2000: 137; КАМЕТ 177; Fortescue 2005: 297-298]

▲ No found Eurasiatic parallels, but cf. Borean ones:

|| PSem. **čVmaʔ-* 'feed (with rich food)' | PWChad. **čam-* 'taste, test'; PEChad. **čam-* 'eat (hard food)' < PAfAs. ***čamaʔ-* 'to eat; food' [HSED: N°472; AFASET 1226];

|| PNcauc. **=éčVm-* 'to gnaw; to chew' [NCED: 410; CAUCET 945] | PSTib. **žhiəmH* 'to chew; to put in mouth' [Peiros, Starostin 1996 IV: N°530; STIBET 1658] < PSCauc. **=éčVm-* (~ *št*) 'to chew' [Starostin 1989: 53; WFR: 138; SCCET 744];

< PBor. ****CVmV* 'taste; to eat' [ND: N°422; Пейрос 1989: 127; GLOBET 313].

J.17. PKCh. **'əhʷji-*, **'əyʷji-* 'breath' (PChuk. **əyzi-* 'air; to breathe out; to keep silent; to shut up; to cough'; PKam. **xʷiči(-)* 'breath; to breathe') [КАМЕТ 319]

| PAlt. **ēba* 'to winnow, fan' [EDAL: 488 f.; ALTET 408] | PYuk. **ey^wadə-* 'soul; breath; to breathe' [Nikolaeva 2006: N^o13; JUKAET 553] | PDr. **āv-* 'to breathe; steam' [DED₂: N^o393; DRAVET 115] (contam. with PAlt. **iābō* (?) 'steam, vapour; rage'? [ALTET 2], missing in [EDAL]) | PIE. **(a)wē-* (PIH. **H-*) 'to blow (of wind)' [WP I: 220 f.; Pokorny: 81 ff.; PIET 1387] (+ Hitt. *huwant-* 'wind' [Tischler: 328 ff.]) < PEurAs. ***He^wyV* 'to blow; to winnow' [NOSTRET 292; NIODET 134].

J.18. PKCh. **'əγ(w)ɾəγ(w)ɾəγ-* 'noise; din, rumble' (PChuk. **γəγəγə-*n** 'noise; sound'; PKam. **xizy^wizy^wə-*, ***xáγ^wɣ^wɣ^wá-* 'noise; sound') [KAMET 853; Fortescue 2005: 335-336] ?φ | PAlt. **oru* 'to cry, shout' [EDAL: 1061 f.; ALTET 1582] | ? PDr. **jer-* 'to weep, cry' [DED₂: N^o282; DRAVET 459] | PIE. **ar-* (PIH. **a-*) 'to pray' [WP I: 182; Pokorny: 781; Tischler: 56, 73 f.; PIET 1360] | PKart. **yar-* / **yr-*, **yaryar-* 'to cry; to sing' [КЛИМОВ 1964: 201; EWK: 385 f.; KARTET 422] / **yar-* / **yr-* [Klimov 1998: 221], PGZ. **yaryar-* 'to talk alot' [Klimov 1998: 221 f.] < PEurAs. ***yorV* (~ ?-) 'to shout; noise' [МССНЯ: 345; ND: N^o721; NOSTRET 217].

J.19. PKCh. **'əjɣu-* 'to eat' (PChuk. **əzɣu-* 'to bite'; PKam. **č'iy^wi-zь-*, **č'ey^wi-zь-* 'sweet; tasty; to eat; to full up') [Мудрак 2000: 175, Chuk.; KAMET 481; Мудрак 2008: 39; Fortescue 2005: 119, Chuk.]

?φ | PAlt. **žē* 'to eat' [EDAL: 1530 f.; ALTET 2596] | PFUg. **sewe-* (**seye-*) 'to eat' [UEW: 440; URALET 905] / **sewi-* [Sammallahti 1988: 548] | PKZ. **žey-* 'to be satiated' [КДИМОВ 1964: 235; EWK: 477; KARTET 1247] | PIE. **sā-* 'satisfied; to satiate' [WP II: 444 f.; Pokorny: 876; Adams: 703; PIET 2373] (+? Hitt. *suw-* 'full', *suwat-* 'to fill, become full') < PEurAs. ***žeyV* 'to eat' [МССНЯ: 340; ND: N^oN^o2008, 2023, 2713; NOSTRET 141].

J.20. PKCh. **'əkl̥ima* 'kidney' (PChuk. **əkcima* 'kidney'; PKam. **kilime-* 'kidney') [Мудрак 2000: 72; KAMET 234; Fortescue 2005: 142]

▲ No known Eurasiatic matches, but cf. Borean ones:

|| PSem. **k^waly-at-* 'kidney' [SED I: N^o156] | Copt. (Fay., Sah. *kala-hē* (*hē* < *ht*) | PCChad. **kwul-* 'kidneys'; PEChad. **ʔa-kwal-* 'liver' | Bed. *ʔənk^welʔa* 'kidneys'; PLECush. **kal(a)l-* 'kidney', PHECush. **kal-* 'kidney', PWar. **kall-* 'kidney', Dah. *kalle* 'kidney'; PSCush. **k^wal-* 'lumbar area'; POm. **kVllaw-* 'kidney' < PAFAs. ***k^waly-* 'kidney' [HSED: N^o1493; AFASET 120].

|| PSTib. **kāl* 'liver; kidney' [Peiros, Starostin 1996 V: N^o165; STIBET 2139] | PBasq. **gibel* (< **bigel!*) 'liver' [BASQET 53] < PSCauc. ***K^wV^wV* 'liver' [SCCET 261].

< PBor. ****K/QwaLV* 'kidney; liver' otherwise [ND: N^o875; GLOBET 361].

J.20. PKCh. **'əkməni-* 'palm; five' (PChuk. **əkməni-* 'palm; the whole palm; pinch'; PKam. **k'umnə-* (*-aq*) 'five') [KAMET 1045; Fortescue 2005: 395, part. Kam.; Мудрак 2008: 117]

| PFV. **küme(-ne)* 'ten' [UEW: 679; URALET 1367] | PYuk. **kumnə-* (~ *q-*) 'ten' [Nikolaeva 2006: N°824; JUKAET 822] | ?µ PIE. **dek'm-* 'ten', **(d)k'm-t-o-* 'hundred' [WP I: 785 f.; Pokorny: 191 f.; Adams: 137; PIET 3000] (comp. **de-k'm-* "two hands") < PEurAs. ***kumV* 'ten' [Angere 1956: 73; Tailleur 1959b: 106; Nikolaeva 2006: N°824].

J.21. PKCh. **əlyə-* 'skin; hide; covering' (PChuk. **əlyə-n* 'bark; skin; covering'; PKam. **-lx̄* 'fur; feather; skin') [KAMET 507; Мудрак 2008: 130 c.] (if not ←b unknown AmAs.) ? | PIE. **lūnk(w)-* 'bast; bark (trees)' [Fraenkel: 390; diff. Pokorny; PIET 3156] < ? PEurAs. ***lu(n)k'V* 'bark; skin' [Krougly-Encke 2023" N°A..75b]. < PBor. ****L/ΛU(N)Q/KV* 'skin; bark'.

J.22. PKCh. **əlmi-n* (*-ŋ*) '(inner) bone; cartilage in a body part' (PChuk. **ənmə-n* '(inner) bone; cartilage in a body part'; PKam. **-lmi-ŋ* 'bone (spec.)') [KAMET 1084] | PDr. **el-[mb-]* 'bone' [DED: N°839; DRAVET 324] | PIE. **ōl-* (PIH. **Hōl-*) 'elbow, funny-bone' [WP I: 156 ff.; Pokorny: 307 ff.; Fraenkel: 360; PIET 243] (+ Hitt. *hālija, halienzi* 'kniēt, knien nieder' [Friedrich]) | PKart. **qel-* 'hand' [EWK 562 f.; KARTET 845] / **qe-* 'hand, arm' [Климов 1964: 264; Klimov 1998: 334 f.] < PEurAs. ***qelV (-mV)* 'a k. of bone' [swh. diff. Dybo 1989; partly ND: N°N°133, 719, 734; swh. diff. NOSTRET 507].

J.23. PKCh. **('ə)lpə-l-* 'cheek' (PChuk. **əlpə(l)=* 'cheek'; PKam. **('ɛ)p'əlhw̄ɛŋ, *p'əlh̄w̄é-(-lh̄w̄-)* (*b*) 'cheek') [Мудрак 2000: 84; KAMET 623; Мудрак 2008: 31 f.] | PAlt. **lebV* (~ *-p-*) 'to eat greedily' [EDAL: 869; ALTET 1193] | PIE. **lap-* (*-ph-*) 'to lap; to lick' [WP II: 383 f.; Pokorny: 651; PIET 2308], **lap-*, **lab-* / *-e-* 'lip' [WP id.; Pokorny id.; PIET 2309] < PEurAs. ***IVpV* 'lip; to lap' [MCCНЯ: 347; ND: N°N°1313, 1321, 2800; NOSTRET 354; Krougly-Encke 2023: N°A.88b].

J.24. PKCh. **əŋin-* 'weak; ill' (PChuk. **əŋin(ɜ-eb)-* 'to get tired; skinny; weak; diseased, unhealthy; illness; trouble; oh, it hurts'; PKam. **ŋin-* 'weak; ill') [Мудрак 2000: 191, Chuk.; KAMET 805; Fortescue 2005: 197] | PAlt. **ēnV* 'pain, sickness' [EDAL: 508 f.; ALTET 436] | PDr. **an-aŋ-* 'to suffer; to suppress' [DED₂: N°112; DRAVET 1880] < PEurAs. ***ʔeNV* 'to suffer; pain' [NOSTRET 1010].

J.25. PKCh. **əpyel* (~ *a*) 'lungs' (PChuk. **əpyel: *kaŋu-pyal* (~ *a, a*) 'airways'; PSkam. **p'ayan* (< **p'ayal*) 'lungs') [KAMET 1002; Fortescue 2005: 366] | PAlt. **ōp'ekV* 'lung' [EDAL: 1058; ALTET 1577] | PEsk. **puva(y)* < **povak-* ~ **puvä(y)* 'lung' [CED: 270; ESQET 744; Мудрак 2011: 581] | PAI. **humyi-* 'lung(s)' [AD: 440] < PEurAs. ***ʔop'V-kV* 'lung(s)' [Мудрак 2011: 581].

J.26. PKCh. **əpkav-* 'sickness; burden' (PChuk. **əpkab/t-* 'can not'; PKam. **('i)piku-* (~ *-o*)

'work, labor') [Мудрак 2000: 194 (Chuk.); КАМЕТ 1113; Fortescue 2005: 220 (Chuk.); Мудрак 2008: 74]

? | PAlt. **op'a(rV)* 'to wear out, be wasted, have a bad (look)' (PTurk. **op-ra-* 'to wear out (intr.), decay'; PMong. **(h)obur* '(bad) appearance, arrogance'; PTung. **(x)upara-* 'to neglect, mistake'; PЯap. **ampu-* 'to waste, discard, throw away; to suffer a loss, roam in a wasted state') [EDAL: 1067; ALTET 1576] | PIE. **āp[e]-* 'ill; weak' [WP I: 47; Pokorny: 52; Adams: 17; PIET 1283] < PEurAs. ***ʔop'V* 'weak, exhausted' [NOSTRET 1164].

J.27. PKCh. **əprə-* 'to tear out, tear off; to take off (tr.)' (PChuk. **əprə-* 'to tear out, tear off; to take off (tr., intr.)'; PKam. **pezə-* (~ *p'-*) 'to take off (sth. from sth.)') [Мудрак 2000: 194 (Chuk.); КАМЕТ 1154; Fortescue 2005: 225 (Chuk.); Мудрак 2008: 155]

| PAlt. **p'uri* (~ *-e*) 'to crush' (PTurk. **ür-* 'to break, tear, demolish'; PMong. **hüni-* 'to rub, grate, file'; PTung. **puru-*, **purgu-* 'to crush'; PKor. **pir-* 'in pieces, in crumbs') [EDAL: 1189 f.; ALTET 1864] | PFUg. **päre* 'small piece; splinter' [UEW: 366; URALET 740] | PDr. **par-* 'to cut, split' [DED₂: N^o3962; DRAVET 1182], cf. **pir-i-* 'to crack; to open' [DED₂: N^o4176; DRAVET 1277], **pör-* 'to split, cleave' [DED₂: N^o4599; DRAVET 1345] | PIE. **(s)perə-* (*sph-*) 'to kick' [WP II: 668 ff.; Pokorny: 992 f.; PIET 2607] | PKZ. **preç-* / **priç-* 'to tear, rend' [Климов 1964: 190; EWK: 62; KARTET 792; Klimov 1998: 204] < PEurAs. ***p'ar'V*, *-u-*, *-i-* 'to tear; to break, split' [МССНЯ: 330, 360; ОСНЯ 2: N^o339; ND: N^oN^o1775, 1790, 1791; NOSTRET 6].

J.28. PKCh. **əpʁo'nmə* 'aorta; bird's stomach' (PChuk. **əpRoR* 'cardiac aorta'; PKam. **pisən'ək (b)* '(bird's) stomach') [КАМЕТ 1215]

▲ Metathesis?

| PAlt. **č'iope* 'water container; vessel' [EDAL: 444 f.; ALTET 316] | PFUg. **čuppV* 'vessel, pot (of birch bark)' [UEW: 45; URALET 81] | PDr. **čip-* 'leaf-cup' [DED₂: N^o2619; DRAVET 186] | Geor. *čap-* 'large earthenware jug' < PEurAs. ***č'op'I* 'vessel' [ND: N^o401; NOSTRET 1261].

J.29. PKCh. **ə'rejə-* 'hump; the upper part of back' (PChuk. **Rej-nil* 'humpback, the upper part of back'; PKam. **č'iyi-* (~ **č'byb-*) 'hump; to warp') [КАМЕТ 1111; Мудрак 2008: 43]

| PAlt. **āra* 'back; behind' [EDAL: 311 f.; ALTET 48] | PSDr. **ar-ai* 'waist, loins' [DED₂: N^o230; SDRET 208] | PIE. **ors-* (PIH. **o-*) 'buttock; anus' [WP I: 138; Pokorny: 340; PIET 235] (+ Hitt. *arra-* c. 'After, Gesäß' [Tischler: 51 f.]) < PEurAs. ***ʔarV* 'back' [ND: N^o145; NOSTRET 1213].

J.30. PKCh. **ərywi-m* " ~ **ər'mi* 'bush; branch' (PChuk. **ərbi-* 'willow rods; bush (in comp.)'; PKam. **fizy'wum* (~ *čf-*, *xw-*) 'bush; branches') [Мудрак 2000: 123; КАМЕТ 496; Fortescue 2005: 259 f.]

| PAIt. **kara (-ma)* 'thin stick, rod' [EDAL: 649; ALTET 728] | PEsk. **qavru* < **qavro* 'arrow; bullet' [CED: 288; ESQET 888; Мудрак 2011: 595 f.] | PSDr. **kar-* 'stake for empalling' [DED₂: N^o1361; SDRET 1201] | PIE. **g^werw-* 'tree, stick, spear' [WP I: 689; Pokorny: 479; PIET 349] < PEurAs. ***kar(H)V* ~ ***gwaru* 'thin and sharp stick' [ND: N^o1199; NOSTRET 1409; Krougly-Enke 2009: N^o4.1f].

J.31. PKCh. **'əti(w)əl* 'illness; bedeviling' (PChuk. **ətbəL* "'pain; to be ill'; PKam. **tx^wal-*: **n̄-tx^wal-* 'to spoil (intr.)') [Мудрак 2000: 208 (Chuk.); KAMET 1105; Fortescue 2005: 302 f.] | PAIt. **t̄elo* 'wild, mad, dumb' (PTurk. **d̄el(b)ü-* 'mad; stupid'; PTung. **dele-* 'wild; dumb') [EDAL: 1362 f.; ALTET 2238] | PUg. **tultV* 'sorcery, witchcraft' [URALET 1883] | PIE. **dol-* 'calculation, fraud' [WP I: 808 f.; Pokorny: 193; PIET 192] (+ Hitt. *tallija-* 'invoke (gods)') | PKZ. **tval-* 'to count' < PEurAs. ***twe(H)IV* 'foolish; to deceive' [ND: N^oN^o2262, 2264, 2265; NOSTRET 1577].

J.32. PKCh. **'ətkəl'mə* 'shaggy; hair of head' (PChuk. **-tkəlu* 'bad hair (in comp.)'; PKam. **t̄q̄l^w̄-m, *-tq^w̄l (= -ʔ-)* 'plait; shaggy') [Мудрак 2000: 145 (Chuk. + diff. Kam.); KAMET 745]

| PAIt. **tok^cV (~ -k-)* 'to plait; to weave' (PTurk. **doku-* 'to weave'; PTung. **duKu-* 'to strand, plait'; PKor. **tah-, *th-ir-* 'to plait, weave; to twist, wind') [EDAL: 1378 f.; ALTET 2257] | PEsk. **tukar̄tə-* < **tukā^htə-* 'harpoon line of plaited caribow sinew' [CED: 346; ESQET 1123; Мудрак 2011: 747 f.] | PSDr. **dugVI-* 'cloth; silk' [DED₂: N^o3285; DRAVET 2143] | PIE. **tek-, *tekVs-* 'to weave' [WP I: 717; diff. Pokorny: 1058 f. and Vasmer 3: 99 f.; PIET 1795] < PEurAs. ***tok^cV (~ -q^c-)* 'to twist; to plait' [МССНЯ: 354; ND: N^o2410; NOSTRET 445; Мудрак 2011: 748].

J.33. PKCh. **'ətpā* "'smallpox; sickness' (PChuk. **ətpə* "' (~ a) 'smallpox; spotted (of reindeer)'; PKam. **t̄p̄lā-* 'to be ill; illness; weakness') [KAMET 814]

| PAIt. **iābi* 'bad wind, infectious disease' [EDAL: 1345; ALTET 2212] < PEurAs. ***tapV* 'bad wind, infectious disease'.

J.34. PKCh. **yitkā-* 'foot, leg' (PChuk. **ȳtka=* 'foot, leg'; PKam. **qit̄iag, *qit̄ie-* 'foot, leg') [Мудрак 2000: 41; KAMET 511; Fortescue 2005: 154]

| ? PAI. **kita-* 'foot (of person, bird, reindeer); leg (from knee down); hind flipper (of seal, sea lion); root (of tooth)', **kita-* 'hit with the foot, kick; dig up roots (of plants)' [AD: 241 f.] | PDr. **kuduj-* 'thigh' [DED₂: N^o1840; DRAVET 669] | PKZan. **kit-* 'finger, toe' [EWK: 202; KARTET 572] < PEurAs. ***k^citV* '(lower part of) leg' [NIODET 288; Krougly-Enke 2023: N^oA.44a].

J.35. PKCh. **y^woj̄h^w̄* 'knee; hip, thigh' (PChuk. **ȳoz̄ȳ* 'shin; arrow shaft'; PKam.

**x^wič'e-lmi-ŋ* 'thigh (of human, animal)') [KAMET 855] (if not ←b Wak.)

? | PIE. **g'ho(n)gh-* 'thigh, hip' [WP I: 588; Pokorny: 438 f.; PIET 1671] < ? PEurAs. ***gV(j)g(w)V (~ G)* or sim. 'thigh, hip' [Krougly-Encke 2023: N°A.31a].

J.36. PKCh. **hīŋu* 'nose' (PChuk. **bīŋ* " 'nose'; PKam. **qɛŋwā* ", **(tu)-qɛŋwɛ-č* 'nose (in comp.)') [Мудрак 2000: 51; KAMET 295; Fortescue 2005: 235; Мудрак 2008: 167]

| PAlt. **k'ioŋa* 'nose' [EDAL: 806 f.; ALTET 1057] | PEsk. **qəŋa-* 'nose' [CED: 298; ESQET 645; Мудрак 2011: 648] | Ngan. *kəmu* 'nose bridge' | Geor. *qnos-* 'smell', cf. Svan. *qān-* id. < PEurAs. ***q'weŋ V* 'nose' [NOSTRET 863; NIODET 150; Мудрак 2011: 648; Krougly-Encke 2023: N°A.61c].

J.37. PKCh. **'jəjlə* 'tongue' (PChuk. **zjɬə* " 'tongue'; PKam. **il'ilə*, **il'il-čah* (lʔ) 'tongue') [Мудрак 2000: 53 c.; KAMET 443; Мудрак 2008: 65 c.; Fortescue 2005: 115]

| PYup. **ulu* 'tongue' [CED: 367; ESQET 710; Мудрак 2011: 790] < ? PEurAs. ****ʔ(j)V(j)IV* 'tongue' [NIODET 1438; Мудрак 2011: 790; Krougly-Encke 2023: N°A.88a].

J.38. PKCh. **kinu* 'scar; navel' (PChuk. **kinu-* 'scar; navel'; PKam. **k'wini^w* " 'navel') [Мудрак 2000: 75; KAMET 254; Fortescue 2005: 137; Мудрак 2008: 105 f.] (Kam. with uncorr. Chuk.), PChuk. **kinuŋəz*, **kinuŋba-* 'meat' [CHUKET 1689; Fortescue 2005: 138]

| PAlt. **kúŋe* (**kúŋe*) 'heart; middle' [EDAL: 741 f.; ALTET 925] | PEsk. **quŋə* 'midst, in the middle; closing in' sub [CED: 311, 317; ESQET 980; Мудрак 2011: 682] | PFUg. **kunV* 'belly' [UEW: 208; URALET 408] | PDr. **gund-* 'heart' [DED₂: N°1693; DRAVET 408] < PEurAs. ***ku(j)ŋI (~ q-)* 'belly; heart' [ND: N°1078a; NOSTRET 1383; NIODET 306; Мудрак 2011: 682; Krougly-Encke 2023: N°A.48a].

J.39. PKCh. **lŋ^wayū-ŋ^w* 'inferior jaw' [Мудрак 2000: 44; KAMET 296; Fortescue 2005: 326 (Chuk.); Мудрак 2008: 224]

| PEsk. **-lu* suff. of body parts [CED: 408] ('place or thing (for performing action)'); PAI. **-lu-* suff. of anatomical terms (not only) [AD: 526 f.] | PUr. **luwe* 'bone' [UEW: 254 f.; URALET 504] / **lɪxi* [Janhunen 1977: 125; Sammallahti 1988: 538] | PDr. **el[u]m-* 'bone' [DED₂: N°839; DRAVET 324] | PKart. **layu-n-* 'jaw; cheek' [KARTET₂ 415] < PEurAs. ***(HV)IVy^wV* 'a k. of bone' [NOSTRET 507; Krougly-Encke 2023: N°A.10b].

J.40. PKCh. **lulá-* 'eye' (PChuk. **əŋa-* 'eye'; PKam. **lulɛ^wŋ ~ *lɛ^wŋɬ (~ l)*, **lul' ~ *il'wil*, **il-kin* 'eye') [Мудрак 2000: 87; KAMET 393; Fortescue 2005: 163; Мудрак 2008: 129] (redupl.)

| PFUg. **wEIE* 'understand; think' [UEW: 589; URALET 1193] | PNilg. **āli* 'eyeball; pupil (of the eye)' [MGE: 14] | PIE. **wel-* 'see' [WP I: 293; Pokorny: 1136 f.; PIET 1451] | Elam. (m.) *el-ti*, (Ach.) *el-te* 'eye' < PEurAs. ***p/welV* 'eye; see; be visible; understand' [ND: N°N°28,

2481; NOSTRET 837; Мудрак 2011: 300; Starostin in pr.: N°13; Krougly-Encke 2023: N°A.25b].

J.41. PChuk. **mir* " (~ *i*) 'saliva' [Мудрак 2000: 188; CHUKET 852]
| PAlt. **miuri* (~ *-r-*) 'water' [EDAL: 935 f.; ALTET 1335] | PEsk. **əməv* 'water' [CED: 110; ESQET 563; Мудрак 2011: 248] | PUg. **märV* 'to dive' [URALET 1826], **marV* 'to dive; to sink' [URALET 1822] | PSDr. **mar-ai* 'rain' [DED₂: N°4753; DRAVET 801], PDr. **murn-* 'to be immersed; to sink' [DED₂: N°4993; DRAVET 940] | PIE. **mar-* 'sea' (in Germ. also 'still water; marsh; lake' [PIET 735] | PKart. **mar-* 'moisture' [ОСНЯ 2: N°294] / **märe* 'cloud; shower' [KARTET 674] < PEurAs. ***mari, -u-* 'liquid; moisture; to sink' [Долгопольский 1964: 1; МССНЯ: 334; ОСНЯ 2: N°294; ND: N°N°1461, 1480; NOSTRET 59] ("despite [ND], not opposed anywhere and hardly separable:); Мудрак 2011: 248; Krougly-Encke 2023: N°A.83].

J.42. PKCh. **nu-* 'to eat' (PChuk. **(š)u-* 'to eat (also in comp.)'; PKam. **nu-* (~ **ʔnu-*, **niʷ-*) 'to eat, feed on') [Мудрак 2000: 100; КАМЕТ 51; Fortescue 2005: 188 f.; Мудрак 2008: 144], deriv. **nojó* 'food; frozen fish' (PChuk. **šozo* 'food stock; food'; PKam. **nozu, -e-* 'frozen fish') [КАМЕТ 1181]
| PDr. **un-* 'to drink; to eat' [DED₂: N°600; DRAVET 1651] < PEurAs. ***HUnV* 'to eat' [Krougly-Encke 2023: N°A.23c].

J.43. PChuk. **peyi*= 'butt of gun; thigh' [Мудрак 2000: 193; CHUKET 1103; Fortescue 2005: 213]
| PAlt. **biuk'i* (~ *-k-*) 'bow, bend' [EDAL: 360 f.; ALTET 185], cf. PTurk. **bok-* 'cross (legs), bend (knees)' and WMong. *boki-* 'bend' | PIn. **uku-, *ukkuta-* 'bend; bow body and head while folding; jackknife' [CED: 364; INUPET 1414; Мудрак 2011: 1025], cf. P Yup. **ikiy-* 'bent or stooped over' [CED: 124; YUPET 432; Мудрак 2011: 874] | P Yuk. **poyodi-* (~ *ɔ*) 'knee' [Nikolaeva 2006: N°1832; JUKAET 958] | PIE. **bhūgh-* 'bend' [WP II: 145 f.; Pokorny: 152 f.; PIET 2067] < PEurAs. ***buk(ʹ)i* 'bow, bend; > knee' [Иллич-Свитыч 1968: N°12.12; МССНЯ: 336; ОСНЯ 1: N°25; ND: N°191; NOSTRET 92; NODET 218; Мудрак 2011: 1025; Krougly-Encke 2023: N°A.44b].

J.44. PKCh. **qǎʎyo* 'mouth; hollow (in tree); orifice' (PChuk. **qasʉʎ-n, -pʉ-n* 'hollow (in tree); slot, slit'; PKam. **qʉshu* 'mouth') [Мудрак 2000: 195 с. (Chuk.); КАМЕТ 151; Fortescue 2005: 378 (Kam.); Мудрак 2008: 167 с.]
| PAlt. **kiāč'u* 'hole; mouth' [EDAL: 682; ALTET 805] | PIE. **g(ʹ)ewəs-* 'gullet' [WP I: 555 f.; PIET 311] < PEurAs. ***kačʹ[yw]V* (~ *q-*) 'mouth or throat cavity; gullet' [NIODET 329; NOSTRET 2053; Krougly-Encke 2023: N°A.56c].

J.45. PChuk. **qari-* 'snore (with nose); windpipe' [CHUKET 1701]
 | PAlt. **gurgi* 'palate' [EDAL: 573; ALTET 568] | PFV. **kurk(k)V* 'throat' [UEW: 676; URALET 1359]; cf. PFP. **kerV* 'throat' [UEW: 660; URALET 1319] | PDr. **kur-* 'voice; throat' [DED₂: N^o1774; DRAVET 689], **Kory-* 'neck; Adam's apple' [DED₂: N^o1645; DRAVET 743] | PIE. **g^werw-*, **g^werk^w-*, **g^werg^w-* 'throat; neck' sub [WP I: 682 ff.; Pokorny: 474 ff.; PIET 1760], ? **g^(w)ir̥w-ā-* 'back of the head; withers' [WP id.; Pokorny id.; PIET 1761] < PEurAs. ***[g]urV (-K/Q(w)V, -wV)* 'swallow; throat' [MCCHЯ: 335; OCHЯ 1: N^o91; ND: N^oN^o656, 666, 679, 927, 931; NOSTRET 81 ("at least, 2 roots"); NIODET 926; Krougly-Encke 2023: N^oA.58d].

J.46. PKCh. **quli-* 'voice; song' (PChuk. **quLi* "'voice; song; to ask for'; PKam. **kul^wɥ-* 'song; voice') [Мудрак 2000: 120; KAMET 288; Fortescue 2005: 241; Мудрак 2008: 117]
 | PEsk. **qulika-* 'to tell about' [CED: 315; ESQET 1001; Мудрак 2011: 677 c.]; PEAl. **qululak* ~ **qulaluk* 'war cry, signal by hollering' [AD: 335] | PYuk. **qoli-* (~ ɔ) 'sound, noise; rustle; make noise, clatter; whisper' [Nikolaeva 2006: N^o2050; JUKAET 549] | PIE. **(s)k^wAl-* 'shout, whine' [WP I: 443 f.; sub Pokorny: 550; PIET 1555] < PEurAs. ***k^Uli* (~ q^ʰ-, -l-) 'shout, tell; voice' [Fortescue 1998: 134, 140, 154; NIODET 363; Мудрак 2011: 678; Krougly-Encke 2023: N^oA.71b].

J.47. PKCh. **tɥnva* (~ ɟ-) 'shoulder; arm' (PChuk. **tɥnna* ~ **šɥnna* 'paddle-oar'; PKam. **tɥnɥ^w-ɟ*, **tɥn^wɥ-* 'shoulder; arm') [KAMET 1244]
 | PDr. **dand-* 'upper arm' [DED₂: N^o3048; DRAVET 269] | PIE. **dhen-er/n-* 'palm (of hand)' [WP I: 853; PIET 205] < PEurAs. ***dVnV* 'upper arm; shoulder' [Krougly-Encke 2023: N^oA.37a].

K. Material activity, instruments, food.

K.1. PKCh. **ay^w(i)ta* 'to flay' (PChuk. **ayta* # "'stone scraper; flint, a material for making knives, axes; PKam. **ɥx^witi^w-* 'to skin fish') [Мудрак 2000: 20; KAMET 565; Fortescue 2005: 25]

b → PYup. **avta-* < **avta-* ~ **ävtä-* A ~ E 'flaying; to embowel; (womens?) work' [CED: 56; YUPET 6; Мудрак 2011: 851]

| PAlt. **akt^vV* 'a castrated animal' [EDAL: 280; ALTET 2763] | PYup. **(ə)yat-* < **(ə)yät-* E 'to flay' [YUPET 377; Мудрак 2011: 862] | PFUg. **äktV-* 'to cut off; to chop' [UEW: 23; URALET 38] / **äktä-* 'to cut' [Sammallahti 1988: 542 f.] < PEurAs. ***ʔag(V)t^vV* 'to cut off; to chop' [NOSTRET 1825].

K.2. PKCh. **ajkola* 'bed; a heap of things' (PChuk. **ajkoLa* 'bed'; PKam. **ekel (-im)* 'bed; a heap of things') [Мудрак 2000: 20; KAMET 714; Fortescue 2005: 16 f.]

| PEsk. ***aki-nt** < ***āki-nt** 'pillow' [CED: 12; ESQET 1607; Мудрак 2011: 95] | PIE. ***eje-** 'to do, to make; to throw' (Lat. *iaciō*, *iēcī*, *iactum* 'to throw', *iaceō* 'to lie') [WP I: 199, II: 460; Pokorny: 502; Tischler: 338 ff.; PIET 2862] < PEurAs. ****ʔajV (-k'V)** 'to lie; to throw'.

K.3. PChuk. ***azmak** 'package, bundle; carcass; covering, overlay; test; crust' [Мудрак 2000: 154; CHUKET 56; Fortescue 2005: 17]

| PAlt. ***ma[k]ʝo** 'wind (vb.); twist; bend' [EDAL: 897; ALTET 1263] < PEurAs. ****ma(j)[k](w)e** 'wind (vb.); wrap'.

NB. Cf. PAlt. ***muk'e** 'wrap (vb.); tie up' [EDAL: 949 f.; ALTET 1360] | PDr. ***mUg-** 'close (of a flower)' [DED₂: N^o4893; DRAVET 909] < PEurAs. ****muk'V** 'close; be wrapped up' [NOSTRET 1040].

K.4. PKCh. ***'ajməqə** 'sauce; broth' (PChuk. ***azməq** 'sauce; goo'; PKam. ***'əmqu**, ***'ejqu** 'broth (fat)') [Мудрак 2000:26; KAMET 569]

| PAlt. ***ámo (-t'a, -sa)** 'mouth; taste' [EDAL: 296 f.; ALTET 34] | PEsk. ***amqə-** < ***amqь-** 'to bite' [CED: 16; ESQET 528; Мудрак 2011: 118 f.], ***ambu-(nt-a-)** < ***ambō-(nt-a-)** 'to gobble food; stomach of animal' [CED: 30; ESQET 1675; Мудрак 2011: 116] | ? PFP. ***om(p)ra** 'a k. of sour plant' [UEW: 718; URALET 1471] (***umra** 'sorrel') | PYuk. ***amlə-B** 'to swallow' [Nikoleva 2006: N^o62; JUKAET 213] | PIE. ***am-(r-)** 'sour; tasting sharp' [WP I: 179; Pokorny: 777 f.; PIET 830] | Geor. *xmev-* / *xmi-* 'to taste; to drink' < PEurAs. ****xamwV** 'taste' [ND 1871; NOSTRET 876; Мудрак 2011: 116, 119].

K.5. PKCh. ***'ákja-** 'vessel; dish of birch bark' (PChuk. ***'əkja-[pʉʉ-n]** 'buoy'; PKam. ***'ákin-sx** 'vessel; dish of birch bark') [KAMET 587]

▲ b→ PYup. ***aki-** < ***āki-E** 'baidar; rain-coat (for the kayak)' [YUPET 128; Мудрак 2011: 837]

ʔφ | PAlt. ***k'ōni** 'ladle' [EDAL: 838 f.; ALTET 1159] | PFP. ***kiná (*kūná)** 'a k. of vessel' [UEW: 664; URALET 1330] < PEurAs. ****k'onV (~ q'-)** (**≈ **ʔak'nV?**) 'vessel; ladle' [ND 1082; NOSTRET 1385].

K.6. PChuk. ***akta-** ~ ***azta-** 'to screen, enclose, fence; gate' [CHUKET 1819]

| PAlt. ***kenta** 'threshold; gate' [EDAL: 664; ALTET 2778] < PEurAs. ****kentV** 'gate'.

K.7. PKCh. ***'ajjáywu-** 'to eat; juicy; sweet' (PChuk. ***(a)lʒay- (-y)** 'sweet; juicy; juice; palatable'; PKam. ***č'iywi-zь-**, ***č'eywi-zь-** 'sweet; tasty; to eat; to repleat') [Мудрак 2000: 28; KAMET 481]

| PAlt. ***iole** 'food' [EDAL: 605; ALTET 641] | PEsk. ***alu[ŋ]- (-unt)** < ***ālu[ŋ]- (-unt)** 'to lick; spoon; tongue' [CED: 20; ESQET 711; Мудрак 2011: 109 f.] | PFUg. ***jOIV** 'fat (of animal)' [UEW: 107; URALET 207] | PDr. ***al-** 'fat; strength' [DED₂: N^o291; DRAVET 37] < PEurAs.

****[j]oIV, -a-** 'fat; (fat) food; to eat' [MCCHЯ: 354; OCHЯ 1: N°123; ND: N°34; NOSTRET 441].

К.8. PChuk. **alpъnyъ-n* 'patch' [Мудрак 2000: 155; CHUKET 27; Fortescue 2005: 20] | PAlt. **éipo* 'to cover' [EDAL: 502; ALTET 459] | PFUg. **aLV (*oLV)* 'place for lying; to bed; spread' [UEW: 4; URALET 3] / **oodi* 'bed' [Sammallahti 1988: 542] | PDr. **al-* 'spread; to cover' [DED₂: N°307; DRAVET 1931] < PEurAs. ***?eLV (-pV)* 'spread; to cover' [ND: N°2615], [NOSTRET 18].

К.9. PChuk. **aLLə-* 'scraper; scrape; plane, rasp (vb.); sweep; broom' [Мудрак 2000: 155; CHUKET 33; Fortescue 2005: 32] | PAlt. **éiV* 'to scratch, rake; to row' [EDAL: 502 f.; ALTET 423] < PEurAs. ***?ei(H)V* 'to scratch; to scrape'.

К.10. PChuk. **амь-* 'sealskin: shoe made of sealskin, short with no fur' [CHUKET 1836] | PAlt. **emV(yV)* 'saddle; belt' [EDAL: 506 f.; ALTET 33] | PEsk. **ami-* < **ame-* 'hide, skin' [CED: 23; ESQET 681; Мудрак 2011: 116 f.] | PYuk. **emgə-* 'belt made of raw deer skin; saddle (n., vb.)' [Nikolaeva 2006: N°1639; JUKAET 562] < PEurAs. ***?emV* 'raw skin; belt; saddle' [Мудрак 2011: 116].

К.11. PKCh. **'aqni* 'fishing rod; bait' (PChuk. **aqni* 'fishing rod; to fish (on rod); casting, hook for drawing out the walrus'; PKam. **'a'ny-* 'bait; hook') [KAMET 1056] ▲ Chukchean b→PYup. **əkna-nəv* < **əknä-nəv E* 'taste' [YUPET 970; Мудрак 2011: 865] | PEsk. **iqja-y* < **iqja-y* 'to fish with hook; fish hook' [CED: 142 f.; ESQET 1445; Мудрак 2011: 318 f.] | PIE. **ank-* (PIH. **H-*) 'hook; sth. bent' [WP I: 60 f.; Pokorny: 45 ff.; PIET 46] < PEurAs. ***?ank'V (~H-, -q'-)* 'hook' [Мудрак 2011: 318].

К.12. PChuk. **arva "* (~ ə) 'boiled fish; fish soup' [CHUKET 111], cf. **š-er-* 'to roast; to cook' [Мудрак 2000: 156; CHUKET 108] | PAlt. **obri* (~ -e) 'dawn' [EDAL: 1040 f.; ALTET 1580] | PDr. **er-i-* 'light; to burn' [DED₂: N°811; DRAVET 337] | PIE. **arew-* (/ **arem-?*) 'sun' [WP II: 358 f.; PIET 2280] < ? PEurAs. ***?VwrV* 'light; to burn' [ND: N°N°74, 2603; NOSTRET 279]. NB. Cf. PDr. **aral-* 'to burn; to grieve' [DED₂: N°276; DRAVET 73].

К.13. PChuk. **aRi-* 'to unshoe, etc.' [CHUKET 1826] | PAlt. **iru* 'trace; furrow' [EDAL: 592 f.; ALTET 687] | PUg. **jarV-* 'to write; to draw; paint' [URALET 1780] | PDr. **iri-* 'to pull; to drag' [DED₂: N°504; DRAVET 451], cf. PSDr. **erut-* 'to draw; to write' | PIE. **er-* (PIH. **erH-*) 'earth; arable land' [WP I: 142; Adams: 483; PIET 236] (if < *'furrow') < PEurAs. ***?irV* 'to pull; to drag, to draw' [MCCHЯ: 368; OCHЯ 1:

N°112; ND: N°N°69, 2647; NOSTRET 569].

K.14. PChuk. **aškama-* 'stick with a forked edge, supporting from inside the covering of yaranga (Chaun); wooden steel' [CHUKET 1827]

▲ Metathesis < **akrama-*.

| PAlt. **kara(ma)* 'thin stick, rod' [EDAL: 649; ALTET 728] | PSDr. **kar-* 'stick for impaling' [DED₂: N°1361; SDRET 1201] | PIE. **g^werw-* 'tree; stick; spear' [WP I: 689; Pokorny: 479; PIET 349] < PEurAs. ***k(w)ar(H)V* 'sharp stick' [ND: N°1199; NOSTRET 1409].

K.15. PChuk. **ab-* 'to get a hole; junk' [CHUKET 123]

| PAlt. **apo* 'to wear out; to be spoiled' [EDAL: 308; ALTET 45] | PDr. **av-i-* 'to press, subdue; to end, perish' [DED₂: N°267; DRAVET 83] < PEurAs. ***ṛapwV* 'to press; to end up; to wear out; to be destroyed' [NOSTRET 987].

NB. Cf. PAlt. **ebi* 'to be weak; to wither' [EDAL: 490; ALTET 410].

K.16. PKCh. **'бѣмьл-* (**'бѣмьл-*) 'to wash' (PChuk. **btmьt-* (~ *-šm-*) 'to wash (also clothes); to bath'; PKam. **čiml-* 'to wash') [Мудрак 2000: 139; KAMET 358; Fortescue 2005: 289 f.]

| PAlt. **šimi* 'to suck; to soak' [EDAL: 1328 f.; ALTET 2163] | PFV. **sēme* 'to gulp, drink; to drink; to swallow' [UEW: 773; URALET 1606] | PKZ. **sim-* 'wet' [EWK: 317; KARTET 988] < PEurAs. ***swimV* 'to soak; to swallow' [MCCHЯ: 335; ND: N°N°2065, 2066; NOSTRET 79].

K.17. PChuk. **бүзо* " (**'бззо?*) 'sling' [Мудрак 2000: 215; CHUKET 1366; Fortescue 2005: 334]

▲ Metathesis < **бзүо*.

| PUr. **jäje* 'belt, girdle' [UEW: 90; URALET 166] / **wijä* [Helimski] | PYuk. **ejə-* 'bow' [Nikolaeva 2006: N°421; JUKAET 262] | PDr. **jä-* 'to tie, bind' [DED₂: N°5149; DRAVET 455] | PIE. **jōs-* 'to gird' [WP I: 209; Pokorny: 513; PIET 1377] < PEurAs. ***jaH(w)V* 'belt' [MCCHЯ: 356; OCHЯ 1: N°143; NOSTRET 463; NIODET 1019].

K.18. PChuk. **бүнь-(ḡta-)* 'to bend (intr.); to cave in' [Мудрак 2000: 214 c.; CHUKET 1390; Fortescue 2005: 335]

▲ Enigmatic absense of **-k-* in Chukchean.

| PFP. **wanjka* 'handle (of vessels)' [UEW: 814; URALET 1711] / **veñka* [Sammallahti 1988: 554] | **vaj-* 'to bend' [DED₂: N°5335; DRAVET 1732] | PIE. **wonk[?]-* 'bent, curved; corner; hook' [WP I: 246; Pokorny: 1134 f.; PIET 49] < PEurAs. ***wanjkV* 'to bend' [MCCHЯ: 336; ND: N°N°2503, 2504; NOSTRET 90].

K.19. PChuk. **ʒʒmi-* 'to hang (tr.), suspend; to poke, thrust, shove; to push in, shove in' [Мудрак 2000: 176; CHUKET 537]

Merger of two roots. The 1st meaning 'to hang' is linked to
| PAlt. **iume* (~ *-o*) 'to tie; strap, belt' (PMong. **(h)umaji-* 'to tighten, shrink'; PTung. **(x)üm-* 'strap, tie; to girdle'; PKor. **umi-* 'to pucker; to close up, shut up'; PJap. **əm̄pi* 'belt') [EDAL: 617; ALTET 661] | PIE. **jem-* 'to tie together, to join' [WP I: 207; Pokorny: 505; Adams: 490 f., 497; PIET 1374] < PEurAs. ***jumV* 'to tie; to hang' diff. [NOSTRET 129].

K.20. PKCh. **ʒpʒb-*, **ʒpʒjʒb-* 'to put on; envelope' (PChuk. **ʒpʒb-* 'to put on'; PKam. **-ʒp(s)i-nu-m* 'envelope') [Мудрак 2000: 36; KAMET 595; Fortescue 2005: 122]

| PAlt. **iope* 'to cover; to wear' [EDAL: 607; ALTET 644] | PIE. **ow-* 'to put on; to take off foot-wear' [WP I: 109 f.; PIET 1316] | PZan. **xw-* 'to wrap; to cover; to bury' < PEurAs. ***ʔojpwV* ~ ***jopwV* (~ *x-*) 'to cover; to wrap; to put on' [ND: N⁰N⁰1901, 2620; NOSTRET 684].

K.21. PKCh. **ʒkvʒb-* (~ **ʒkʒb'm*) 'cover, envelope; clothes' (PChuk. **-ʒkʒb-n* 'cover, envelope'; PKam. **ʒkiwi-m* 'border, edging, trimming') [Мудрак 2000: 73 f.; KAMET 232], cf. PKam. **qoywʒi* (~ *-wʒb-*) 'parka' [ITELET 237]

| PAlt. **gebo* 'shell; husk' [EDAL: 534 f.; ALTET 490] | PYuk. **qaba-* 'bald' [Nikolaeva 2006: N⁰1968; JUKAET 923] | PDr. **gavisen-* 'case; cover' [DED₂: N⁰1221; DRAVET 375] < PEurAs. ***gebV* 'cover; shell' [NOSTRET 1018; NIODET 339].

K.22. PChuk. **ʒkbo-t-* 'to participate in sth.' [CHUKET 2029]

| PAlt. **kup'V* (~ *k'-*, *-o-*) 'part' [EDAL: 744; ALTET 904] | PUr. **kupsa-* (**kuksV-*) 'to leave smb. without his share' [UEW: 214; URALET 420] | Geor. *qop-* 'divide' < PEurAs. ***q'Up'V* 'to divide' [ND: N⁰1927; NOSTRET 1523].

K.23. PKCh. **ʒʒmi-* 'to kill; to obtain, procure; booty, loot' (PChuk. **ʒtmʒb-* 'to kill; carcass'; PKam. **ʒime-*, **ʒimaz* 'to kill; to hunt') [Мудрак 2000: 208 (Chuk.); KAMET 815; Fortescue 2005: 297; Мудрак 2008: 125]

ʔσ | PAlt. **iemo* (*-k'V*) 'to be lazy, negligent' [EDAL: 886 f.; ALTET 83] | PFP. **lama* 'weakness; weak' [UEW: 684; URALET 1381] | ? PSDr. **nem-* 'to crush; to squeeze' [DED₂: N⁰2926; SDRET 2463] (contam. with PEurAs. ***namV* 'press; seize' [NOSTRET 129]?) | PIE. **lemə-* 'break' [WP II: 433 f.; Pokorny: 674; PIET 2364] | Geor. *lam-* / *lm-* 'cause harm; be ill' (< PKart. **lam-* / **lm-*) < PEurAs. ***iem(Hw)V* 'to break; fragile' [MCCHЯ: 339; OCHЯ 2: N⁰319; ND: N⁰1602; NOSTRET 129].

K.24. PKCh. **ʒʒyi-* 'alder bark paint' (PChuk. **ʒcyi-* 'get red (of alder bark when mading paint)'; PKam. **sxʒwʒn-* (*c*) 'a hide pwinted with red alder paint') [KAMET 426]

| PIE. **leuk-* 'shine' [WP II: 408 ff.; Buck: 55, 60; Pokorny: 687 ff.; Friedrich: 126, 130; Adams: 556, 567; PIET 2341] < ? PEurAs. ***luk'V (~ -Ī-)* 'shine; bright colour'.

K.25. PKCh. **'bmlā-* 'to tan; to soften the skin' (PChuk. **'bmtb-* ~ **'bmta-* 'soft (skin); flexible; become flexible; dress skin'; PKam. **mel-*: *'en-mel-* 'dressed skin, blackened skin') [Мудрак 2000: 164 (Chuk.); KAMET 1158; Fortescue 2005: 182 (Chuk.)]

| LMong. *milmere-* 'to grow weak, feeble' | PDr. **mel-* 'slow; soft' [DED₂: N°5078; DRAVET 834] | PIE. **(a)mal[a]- / -e-*, **(a)mlā-* 'to soften; to weaken; soft; weak; tender' [WP II: 284 ff.; Pokorny: 716 ff.; Adams: 442; PIET 2200] < PEurAs. ***?VmVIV (~ -Ī-)* 'soft; to soften' [ND: N°N°1407, 1412, 1413; NOSTRET 1448].

K.26. PKCh. **'bnjə-* 'to prick, stick into' (PChuk. **'zup-* 'to stumble on; to stick on'; PKam. **'bn'i- (n?)* 'to put, set (vertically); to prick in, stab') [Мудрак 2000: 177 (Chuk.); KAMET 894; Fortescue 2005: 118], cf. PChuk. **'az-up-* 'to prick, stick into; splinter; thorn' [Мудрак 2000: 154; CHUKET 39; Fortescue 2005: 29]

| PIE. **nēj-* 'to sew' [WP II: 694 f.; PIET 2643] < PEurAs. ***nVj(H)V* 'to stick into'.

K.27. PKCh. **'brā-ŋā* 'soup, broth' (PChuk. **'brāŋa*, **'brā-t-* 'soup, broth; to boil, cook; melted fat'; PKam. **-p'āŋ*: **p'āyu-p'āŋ* 'boiled food') [Мудрак 2000: 37; KAMET 1015; Fortescue 2005: 347]

▲ b → PYuk. **puŋ- B* 'soup; to boil (tr., intr.)' [JUKAET 540] and PNiv. **pəny* 'soup' [HDY: N°1946], [NIVGET 1694], cf. [NIODET 582]. b → PSam. **wenV* 'meat or fish soup, broth' [Janhunen 1977: 174; Helimsky 1997: 665], PTurk. **bün (*büjn?)* 'meat soup, fish broth' [ДТС: 352; EDT: 347; ЭСТЯ 2003: 89 с.; ТССДА: 130]. Cf. [Дыбо 2007: 138 с.].

▲ Cf. PKCh. **pu'ne'nə-m* 'a dish made of crushed meat' (PChuk. **əpReRəṃ* 'a dish made of crushed meat'; PKam. **punəŋ-* 'a dish of national kitchen') [KAMET 1289]

| PAlt. **ep'o* 'bread; food' [EDAL: 514; ALTET 441] | PDr. **ap-am* 'a k. of cake' [DED₂: N°155; DRAVET 57] | PIE. **eps-* 'to cook' [WP I: 124; Pokorny: 325; PIET 1324] < PEurAs. ***?ep'V* 'to cook, bake' [ND: N°63; NOSTRET 1200].

K.28. PChuk. **'bqm̄bt* 'shed' [CHUKET 2155]

| PAlt. **kōme (~ -o)* 'mat, carpet' [EDAL: 717; ALTET 899] | ? PDr. **kum-* 'headpad; to carry (on head)' [DED₂: N°2677; DRAVET 739] < PEurAs. ***komV* 'mat, pad'.

K.29. PChuk. **'bRb̄b̄-* 'to cut, cut longwise; to chop (wood)' [Мудрак 2000: 200; CHUKET 1214; Fortescue 2005: 75]

| PAlt. **ōrV* 'to mow; hay' [EDAL: 1063 f.; ALTET 1585] | PSam. **wirə-* 'to scrape; to plane' [Janhunen 1977: 175] | PDr. **var-* 'to scrape; to wipe' [DED₂: N°5295; DRAVET 1726] | PIE. **rAwə-* 'to tear apart; to break in pieces' [WP I: 351 f.; Adams: 537; PIET 2267] | PKart. **reyw-*

/ *ryw- 'to destroy; to scatter' [Климов 1964: 158; EWK: 283 f.; KARTET 922; Klimov 1998: 156] < PEurAs. **ʔorywV 'to break; to scatter; to tear' [ND: N⁰N⁰1976, 2533, 2532; NOSTRET 972].

К.30. PChuk. *bšra- 'to cut, cut open; to wound, cut os.; to carve a ditch; long, oblong' [Мудрак 2000: 204; КАМЕТ 1176; Fortescue 2005: 73-74]

| PAlt. *č'aro 'to cut off, tear off' (PTurk. *čar 'whetstone; sickle; to whet'; PTung. *čari- 'to tear'; PKor. *čari- 'to cut off, chop off'; PЈap. *tat- 'to cut, cut off') [EDAL: 418 f.; ALTET 274] | PYup. *carəmiv ~ *sajəmiv < *carьтєв ~ *sajьтєв A 'harpoon for seals' [YUPET 1448; Мудрак 2011: 854] | ? PFUg. *čärke- 'to break; to ache' [UEW: 32; URALET 59] | PNDr. *car- 'to tear; to cut' [DED₂: N⁰2416; NDRET 153] | PIE. *(s)kerə- 'to cut' [WP II: 573 f.; Adams: 168 f.; Tischler: 399 ff., 517 ff.; PIET 2503] | PKart. (PKZ.?) *čar- / *čr- 'to cut' [Климов 1964: 255; EWK: 536 f.; KARTET 298] / *čer- / *čr- 'to cut, chop, fell' [Klimov 1998: 321] < PEurAs. **Car(H)wV 'to cut; sharp' [ОСНЯ 1: N⁰53; ND: N⁰N⁰431, 435; Bomhard 1994: N⁰156; NOSTRET 423; Мудрак 2011: 854].

NB 1. Cf. PAlt. *č'ire 'to cut; to scrape' (PTurk. *čert- 'to cut (off edges), make notches; to click; to pinch; to pinch (a musical instrument)'; PTung. *čire- 'to scrape off') [EDAL: 434 f.; ALTET 322] | PEsk- *cəry- < *cəry- 'to cut open through belly' [CED: 74; ESQET 1508; Мудрак 2011: 190] | PKart. *čur- 'to cut; to castrate' [EWK: 540; KARTET 311] < ? PEurAs. **č'irV 'to scrape' [Мудрак 2011: 190].

К.31. PChuk. *btyagrb- 'to hack, hackle; to rasp with big chips' [CHUKET 2249]

| PIE. *tek's- 'to hew; to trim' [WP I: 717; Friedrich: 204; Adams: 286; PIET 1796] < PEurAs. **t'Vk'I 'to hew; to hack'.

К.32. PKCh. *b'tva- 'to untie; to rip off' (PChuk. *b'tva- 'to rip off (fabric, body); to be in tatters'; PKam. *itxa-: *b'n-itxa- 'to untie') [Мудрак 2000: 139; КАМЕТ 134; Fortescue 2006: 302 (Chuk. + incorr. Kam.)]

▲ Metathesis < *b'qta-?

| PAlt. *k'et[o] 'to tear apart; to rip' [EDAL: 785; ALTET 1019] | PDr. *ked- 'to perish' [DED₂: N⁰1942; DRAVET 730] | PIE. *skeda- (-kh-) 'to split' [WP II: 558 f.; Pokorny: 918 f.; Adams: 157; PIET 2486] < PEurAs. **k'etV (~ q'-) 'to tear; to split' [NOSTRET 809].

NB. Cf. PAlt. *k'ad[u] 'to be worn out, destroyed' (PTurk. *KAdu- 'to stick in; sting; to sew'; PMong. *kidu- 'to slaughter; to destroy'; PTung. *xadü- 'to be worn out; to become thin, fragile'; PЈap. *kuntu-ra- 'to be destroyed; to break down') [EDAL: 753 f.; ALTET 958] and several others.

К.33. PKCh. *b'qha'qqa 'breeching, breech-band; harness' (PChuk. *bšrašqa 'breeching, breech-band; harness'; PKam. *sfiásqь-тbь (s) 'breeching, breech-band') [КАМЕТ 488;

Fortescue 2005: 74]

| PAlt. **č'ak'a* 'to wrap, tie' [EDAL 411; ALTET 275] < PEurAs. ***c'ak'V* (~ *č'*, *č'*, *č'*, *-q'*) 'to tie'.

K.34. PKCh. **'b'vjat-*, **'bn-vbjat-* 'to untie, unbind (tr., intr.)' (PChuk. **byzat-* 'to untie, unfasten'; PKam. **jat-*: **'ən'jat- (n?)* 'to untie (tr.)') [Мудрак 2000: 215 (Chuk.); KAMET 908; Fortescue 2005: 332 (Chuk.)]

| PIE. **wey[e]-*, **wyē-*, **wī-k'-* (PIH. **weyH-*) 'to twist; to weave' [WP I: 223 f.; PIET 1391] | PKZ. **xwe(w)-* 'to embrace; to entwine' [KARTET 1193; Klimov 1998: 328] / **xw-* [EWK: 548] < PEurAs. ***xwej(H)V* 'to twist, entwine' [NOSTRET 1718].

K.35. PChuk. **cayā-* (~ *ə-*, *-y-*, *-b-*) 'fitting; to fit; to fall into disrepair; to discard, to throw away for worthlessness; to banish' [CHUKET 1833]

| PAlt. **žiak'u* 'to pass, to fit' [EDAL: 1540; ALTET 2800] < PEurAs. ***žak'V* (~ *z'*, *-q'*) 'to pass, to fit'.

K.36. PKCh. **čay^wat* 'lasso' (PChuk. **cayat* 'lasso; to lasso'; PKam. **čuy^wat* 'lassp') [Мудрак 2000: 131; KAMET 795; Fortescue 2005: 43]

| PAlt. **suba* (~ *-o*, *-u*) 'to tie, to bind' [EDAL: 1311 f.; ALTET 2142] | PUr. **s'owV* 'belt, bridle' [UEW: 493; URALET 1008] < PEurAs. ***sVwV* (~ *c'*, *-yww-*) 'to tie; strap' [ND: N°1009; NOSTRET 1538].

K.37. PKCh. **čālfā-* 'to press' (PChuk. **calba-* (~ *a*) 'to press'; PKam. **tilxē-*, **čilxē-* 'to fight; to chop a cutlet') [Мудрак 2000.: 157 (Chuk.); KAMET 838; Fortescue 2005: 43 (Chuk.)]

| PEsk. **caluy-* < **cāluγ-* 'to tan skin, to scrape skin' [CED: 66ESQET 1761; Мудрак 2011: 173] | PYuk. **cilkəa-* 'to press, to crush (to kill lice); to pound; to crumple; to trample, to tread' [JUKAET 880] < PEurAs. ***C/SVIHV* 'to press' [NIODET 1064].

K.38. PKCh. **'əčməkə-* 'to wrap up; bundle' (PChuk. **cəmkə-* / **cəmqə-* 'to fold, to wrap up (intr.); bundle; wrapper, shell; muscle'; PKam. **č'umk'ə-* 'to wrap up') [Мудрак 2000: 158, Chuk.; KAMET 1035; Fortescue 2005: 52]

| ?φ PAlt. **č'ak'a* 'to wrap; to tie' (PTurk. **čak-* 'to bind; fetters; harness'; PTung. **čak-* 'to wrap up; to collect'; PKor. **čhā-* 'to wear on the belt'; PJap. **ta(n)k-* 'to bind one's hair into a bun; to bundle together; to wear on the belt') [EDAL: 411; ALTET 275] < PEurAs. ***c'a(m)k'V* (~ *č'*, *č'*, *č'*, *-q'*) 'to wrap'.

K.39. PKCh. **'əyčēv-* 'to wipe (tr., intr.)' (PChuk. **əzteb-* 'to wipe, to rub; towel, grass for wiping, napkin, rag'; PKam. **čxa-nəm* 'towel') [Мудрак 2000: 176, Chuk.; KAMET 650; Fortescue 2005: 125]

| PFUg. **wačV* 'to scrape, rub' [UEW: 549; URALET 1115] / **wica-* 'to scrape' [Sammallahti 1988: 551, diff.] < PEurAs. ***wVč'w* (~ *-cw-*, *-čw-*) 'to rub; to wipe'.

К.40. РКЧ. **'əhli-*, **-hli-n* 'steer, rudder; to steer; stick for chasing' (PChuk. **əlbe-* ~ **ььli-* 'steer; to steer, to hond the steer; stern'; PKam. **hьli-* 'stick, post (for consolidation, for chasing)') [Мудрак 2000: 185 (Chuk.); KAMET 1166; Fortescue 2005: 166 (Chuk., incorr. Kam.)], cf. PKam. **sal'-lan* (~ *l-*) (*lʔ*) 'stern rudder' [ITELET 1346] = Kory. (E) *javal'e-n* (< *javal'-le-n*) 'rudder'

| PFUg. **ulke* 'pole, post' [URALET 934] / PUr. **ul̥*, PFUg. **ulki* [Janhunen 1977: 53; Sammallahti 1988: 536].

Hypothetical is the further linkage to: PAlt. **iōle* 'to hang on (smth.), hang on hook' (PTurk. **il-* 'to hang on (smth.); hook'; PMong. **elgü-* 'to hang on (sth.)'; PTung. **ol-* 'hook (for hanging kettle); to hang over fire'; PKor. **ori* 'a fishing hook with several barbs') [EDAL: 604 f.; ALTET 648] | PDr. **il-uk-* 'to be sprained' [DED₂: N°2702; DRAVET 437] | PKart. **yul-* 'bent, crooked' [Климов 1994: 75; EWK: 403 f.; KARTET 457] / **ywl-* 'bent, curved' [Klimov 1998: 227 f.] < PEurAs. ***yilHV*, *-u-* 'to roll' [NOSTRET 934, 1612].

К.41. РКЧ. **'əlaywti* 'to sail (on a canoe)' (PChuk. **'əlaytə* 'bat, coupled dugout boats'; PKam. **'əlxw-se-*, **t-* 'to swim upstream') [Мудрак 2000: 31, Chuk. + diff. Kam.; KAMET 882]

| PFV. **lajwa* 'boat, canoe' [UEW: 682; URALET 1377] < PEurAs. ***lawV* (~ *-yw-*) 'boat, canoe'.

К.42. РКЧ. **'əly(w)əlpe-* 'to turn around' (PChuk. **'ətyəŋte-* ~ **'ətyəŋtə-* 'to turn one's back; away, back; to roll over to the other side; to turn inside out'; PKam. **sixoʒŋǰáw-* (*s*) 'to turn around') [Мудрак 2000: 183, Chuk.; KAMET 707]

| PDr. **val-ai-* 'to turn; to surround' [DED₂: N°5313; DRAVET 1711] | PIE. **(e)wel(w)e-* (PIH. **H-*) 'to roll; to twist' [WP I: 298 f.; Tischler 277 ff.; Adams: 588, 596; PIET 1455] < PEurAs. ***yweIV* 'to turn; to roll' [ND: N°2477; NOSTRET 1612].

К.43. РКЧ. **('ə)lyinθə-* 'to rummage; to seek pulling out' (PChuk. **'ətyijrə-* 'to pull out; to rummage; to search'; PKam. **('l)inlə-* 'to look for lice') [Мудрак 2000: 207 (Chuk.); KAMET 822; Fortescue 2005: 292 (Chuk. + diff. Kam.)]

?σ | PUr. **le(j)kka(-)* 'rift, split; to cut, split' [UEW: 244; URALET 477] | PIE. **lak-* 'to tear' [WP II: 419 f.; Pokorny: 674; PIET 680] < PEurAs. ***IVk'V* (~ *-q'-*) 'to cut; to tear' [ND: N°1292; NOSTRET 1425].

К.44. РКЧ. **'əmrə* 'paint, dye' (PChuk. **'əmrə* (~ *-ʒ-*) 'decoration; to decorate, adrn; decorated'; PKam. **'anza-* 'dirt; paint, dye') [KAMET 1073]

| PAlt. **meru* (~ *-r-*) 'spot' [EDAL: 915; ALTET 1286] | PDr. **mar-* 'obscure; dirty; to fade' [DED₂: N^o4750; DRAVET 800] | PIE. **mor-* 'dark, misty' [WP II: 279 f.; Pokorny: 734; PIET 761] < PEurAs. ***merV* 'dirt' [MCCHЯ: 358, OCHЯ 2: N^o288; ND 1471; NOSTRET 479].

K.45. PKCh. **'ənjū-* (~ *-i'u-*) 'to guard' (PChuk. **əšzu-* 'to guard, protect'; PKam. **'inju-* 'to guard') [Мудрак 2000: 65 c.; KAMET 466]

| PAlt. **niā* 'eye' [EDAL: 981 f.; ALTET 1473] | PFV. **wan-* 'to see; to look' [UEW: 813; URALET 1710], cf. PSam. **no* id. [ND: N^o1629] | PYuk. **nojdi-* 'to guard, watch' [Nikolaeva 2006: N^o1480; JUKAET 690] | PSDr. **nō-* 'view; to notice; eye' [DED₂: N^o3794; DRAVET 1869], PDr. **un-* 'to think' [DED₂: N^o727; DRAVET 1650] | PIE. **ney-* 'to shine; to sparkle; [to see]' [WP II: 321, 336; Pokorny: 760; PIET 2226] | Geor. *nax-* 'see; find', PKZan. **naxu-* 'to keep; to save' [KARTET₂ 1667] < PEurAs. ***nVj(x)V* ~ (?) ***?/wVn(x)V* 'eye; to see; to look' [ND: N^oN^o138, 1631, 1629 ("A lot of confusion that has to be sorted out."); NOSTRET 835; NIODET 259, 989; Krougly-Encke 2023: N^oA.72].

K.46. PKCh. **'əry(w)itu-* 'whip; long pole for driving a team, sledges' (PChuk. **'əryit-* 'to shake, to whip; whip'; PKam. **'os(x)itu-* 'stick, pole (for consolidation, for chasing)') [KAMET 1232; Fortescue 2005: 260 (Chuk. + diff. Kam.); Мудрак 2008: 150 f.]

| PAl. **ađyilay(-)*, **ađyi-l(a)yi-* 'earthquake; to tremble by earthquake (the ground)' [AD: 12 f.], cf. Al. (E) *ađvi-jāx-* (< PAl. **(h)ađvi-jāy-*) 'to shake, vibrate (e.g. house in strong wind or by earthquake; also of person)' [AD: 13] | PIE. **ergh-* 'to shake, move, anger, be angry' [WP I: 147 f.; Pokorny: 339; PIET 1340] | ?φ PKart. **rex-* / **rx-* 'to beat, hit; to rock' [EWK: 286, 291; KARTET 930] < PEurAs. ***HVRg(w)V* 'to shake, tremble'.

K.47. PKCh. **'ətyiᶱw* '(fish) flour' (PChuk. **tyin* 'fish flour'; PKam. **txim* 'flour') [Мудрак 2000: 166; KAMET 1261]

| PAlt. **tugi* 'to pound' (PTurk. **düg-* 'to pound'; PMong. **tügsi-* 'to thresh'; PTung. **dug-* 'to hit, beat; to batter; to thresh'; PKor. **tih-* 'to pound'; PЯap. **tuk-* 'to pound') [EDAL: 1381 f.; ALTET 2267] < PEurAs. ***tugI* 'to pound'.

K.48. PKCh. **-ətywē-* 'to take off, undress; to peel off' (PChuk. **-ətbe-* 'to do the action, counter to the producing base (to undress); to unshoe'; PKam. **-tuwa-l-* 'to take off, strip away, denude; to peel off') [Мудрак 2000: 35 (Chuk. + incorr. Kam.); KAMET 1159; Fortescue 2005: 424 (Chuk. + incorr. Kam.)]

| PDr. **tiv-* 'to take out, remove' [DED₂: N^o3407; DRAVET 1548] | PIE. **dū-* (?) 'to dress; to take off' [WP I: 777 f.; Pokorny: 217-218; PIET 1870] < PEurAs. ***tVwV* (~ *-yww-*) 'to dress / to remove, undress'.

K.49. PKCh. **'əđəme-* 'to dip; to wash' (PChuk. **əšme* ~ **š-me-* 'to dunk, dip'; PKam. **limi-*

'to wash') [KAMET 357; Fortescue 2005: 70; Мудрак 2008: 125]

| PAlt. **šomo* 'to dive; to submerge; to scoop' (PTurk. **čom-* / **čöm-* 'to dive; to swim; to scoop; to immerse, dip; scoop'; PMong. **čomu* 'scoop'; PTung. **šom-* 'deep; scoop; to pour water over oneself; to submerge, fall under ice'; PKor. **sám-* 'to swallow; to penetrate'; PJap. **səma-* 'to dip, dye') [EDAL: 1342 f.; ALTET 2193] | PIE. **swem(bh)-* 'to be unsteady; to swim' [WP II: 524; diff. Pokorny: 1046; PIET 2445] < PEurAs. ***swVmV* (~ *šw-*, *č'w-*) 'to dive; to submerge' [NOSTRET 1760].

К.50. PKCh. **'əθ(ə)n'mə* 'smoke hole' (PChuk. **'šno-* " (~ **'əšnu*) 'smoke hole'; PKam. **linə-m* 'lower hole of the yurt') [Мудрак 2000: 204 (Chuk.); KAMET 1115; Fortescue 2005: 71 (Chuk.); Мудрак 2008: 125 с.]

| PAlt. **saño* (~ *z-*) 'hole; interval' [EDAL: 1230 f.; ALTET 1980] < PEurAs. ***cVnV* (~ *č-*, *š-*, *-n-*) 'hole'.

К.51. PKCh. **'əθ'nu-* (~ *ə*) 'to press' (PChuk. **'Rrɤ-* 'to press (down); to put on; to press'; PKam. **tiwʔni'w-k-* 'to press; to clench') [Мудрак 2000: 24; KAMET 199; Fortescue 2005: 257; Chuk.], **'n-əθ'nil-* 'to put; to push, shove' (PChuk. **šəššit-*, **-ššit-* 'to put; to let; stand, shelf; to add'; PKam. **t'inil-*, *-s-* 'to push; to stuff') [Мудрак 2000: 202 (Chuk.); KAMET 906; Fortescue: 257 (Chuk.)]

| PKZ. **čn-* 'to press' [Klimov 1998: 314], **čn-ex-* 'to press' [Климов 1964: 252; EWK: 527 f.; KARTET 238; Klimov 1998: 315] < PEurAs. ***c'VnV* 'to press'.

К.52. PKCh. **'əθpé-* 'stone pestle; hammer' (PChuk. **əšpe-je* 'stone hammer'; PKam. **sipé*, **'ispé-* (*s*) 'stone pestle') [Мудрак 2000: 129; KAMET 474; Fortescue 2005: 72]

| PAlt. **č'ap'a* (~ *-u*, *-i*) (*-k'V*) 'to chop; to hit' (PTurk. **čap-* 'to beat, hit; to attack, rob; chisel; hack, hoe, hatchet; to chop; to scythe, mow; to dig; to break; sharp; scythe; to whet, sharpen (a scythe); metal shavings after forging; trap; whetstone for sharpening scythes; to whip; to hack, adze; shavings; booty; currycomb'; PMong. **čabči-* 'to chop; to mow'; PTung. **čapka* 'fish spear'; PKor. **čak-* 'fish spear') [EDAL: 416 f.; ALTET 271] | PFUg. **čappV* 'to hit; to chop' [UEW: 29; URALET 52] / (?) **čappi-* 'to hit; to cut' [Sammallahti 1988: 29] | PSDr. **Savar-* 'to rub in, apply oil' [DED₂: N^o2389; SDRET 2104] | PIE. **(s)kope-* / **(s)kap[e]-* (*-ph-*) 'to split; to break' [WP II: 559 ff.; Pokorny: 930 ff.; Adams: 194; PIET 2488] < PEurAs. ***c'ap'V* 'to chop' [МССНЯ: 361; ОСНЯ 1: N^o41; ND: N^oN^o347, 351; NOSTRET 503].

К.53. PKCh. **y'wala* 'knife' (PChuk. **yala* 'knife; sheath', **yala-žotyə-n* 'sheath'; PKam. **x'wal* (*lʔ*), **x'wan-sux* (~ **y'w-*) 'knife; sheath') [Мудрак 2000: 43; KAMET 299; Fortescue 2005: 323; Мудрак 2008: 217 f.]

▲ Cf. PChuk. **abəlqə-* 'blunt; to get blunt' [CHUKET 127] with confix of negation **e-...-qə-*. | PFUg. **wole-* (**wōle-*) 'cut; shave' [UEW: 579; URALET 1174] | PYuk. **jool-dojcə-* 'spear'

[JUKAET 951] | PDr. **val-a-* 'to cut; to be sharp' [DED₂: N°5306; DRAVET 884] < PEurAs. ***wajV* (~ *yw-*, *xw-*, *-IH-*) 'to cut; sharp' [MCCHЯ: 353; NOSTRET 424; NIODET 951].

▲ Cf. PNiv. **val-* 'to hack; to cut' [NIVGET 1491].

K.54. PChuk. **зъсса-* 'to stretch o.s., to straighten bones; to rip (fabric, body, flesh)' [CHUKET 1933]

| PAlt. **ubč'V* 'rump; behind; fish fin' [EDAL: 1481; ALTET 2720] | PEsk. **uvat* (~ *-y-*, *-r-*) (*-ray-*) 'waist; buttocks; hind part of animal' [sub CED: 359; ESQET 1183; Мудрак 2011: 823 f.] | PFP. **wac'V* (**woc'V*) 'clavicle; shoulder' [UEW: 809], [URALET 1699] | PIE. **ost-i-* (*-th-*) (PIH. **H-*) 'bone' [WP I: 185 f.; Pokorny: 783; PIET 839] | Megr. *očiši* 'back of the body' or PKart. **yač-* 'jaw' [EWK: 386; KARTET 415; Klimov 1998: 222] < PEurAs. ***HVwč'(H)V* ~ ***HwVč'(H)V* 'bone' [ND: N°N°823, 731; NOSTRET 822; NIODET 37; ESQET 1183; Мудрак 2011: 823 f.; Krougly-Encke 2023: N°A.10a].

K.55. PKCh. **'oурь-* (~ *f'wa-*) 'needle for knitting nets' [Мудрак 2011: 152; KAMET 337; Fortescue 2005: 205]

▲ Old compound with PKCh. **'up-* 'to stick in', q.v.

| PAlt. **ok'a* 'sharp point; to notch' [EDAL: 1046; ALTET 17] | PEsk. **əki* (*-lik-*) 'to cut; to wound' [CED: 175, 103; ESQET 109; Мудрак 2011: 231]; cf. PEsk. **uki-* 'hole; to get or make a hole' [CED: 363 f.; ESQET 1196; Мудрак 2011: 783 c.]; PAI. **uki-na-* 'knife' [AD: 428], PAI. **uy-t-* 'to prick (boil, swollen part of body); to bleed; to lance (with lancet, person)' [AD: 420], AI. (Atk.) *uyi-* 'steep cliff' (in loc. names) [AD: 418] | PFenn. **okas* 'prickle, thorn' | PYuk. **ek'wu-* 'hole; (small) duct' [Nikolaeva 2006: N°1605; JUKAET 6] | PGndw. **āk-* 'a k. of thorny tree' [DED₂: N°338; GNDET 29], cf. PDr. **ogir* 'claw; nail' [DED₂: N°561; DRAVET 1103] | PIE. **ok(-)* 'sharp' [WP I: 28 f.; PIET 23] | PKart. **hwek-* 'sharp end' [OCHЯ 1: N°113; KARTET 477] < PEurAs. ***hok'V* 'sharp; sharp point' [MCCHЯ: 353; OCHЯ 1: N°113; ND: N°123; Bomhard 1994: N°398; NOSTRET 242; Greenberg 2002: N°18; Мудрак 2011: 783; Krougly-Encke 2023: N°A.61b].

K.56. PKCh. **pəl-əλku-* 'to end, to finish' [Мудрак 2000: 109; KAMET 363; Fortescue 2005: 223]

▲ The 2nd compon. is **λku-* 'to end; to stop' [KAMET 362].

|| PAlt. **p'ule* (~ *-i*) 'be left; surplus' [EDAL: 1181 f.; ALTET 1851] | PEsk. **patə-k-* 'come to the end' [CED: 248; ESQET 417; Мудрак 2011: 531 f.] | PUr. **paljV* 'thick; many' [UEW: 350; URALET 706] | ?φ PYuk. **poj(u)-* 'many' [Nikolaeva 2006: N°1838; JUKAET 375] | PDr. **pal-* 'many' [DED₂: N°3987; DRAVET 1166] | PIE. **pele-* / **plē-* 'fill; full' [WP II: 62 f.; Pokorny: 798, 799 f.; PIET 2012] | Geor. *u-pro* 'more', *pri-ad* 'many' < PEurAs. ***p'ul(H)V*, *-a-* 'full; to fill; > complete; to finish' [Долгопольский 1964: 11; Илич-Свитыч 1968: 10.3; MCCHЯ: 348; ND: N°1694, 1709, 1710; NOSTRET 385; NIODET 1137; Мудрак 2011: 531;

Krougly-Encke 2023: N°A.5a].

K.57. PKCh. **p̄ylk^wɔ-* 'metal; iron; copper' (PChuk. **p̄ylɣɔntɔ-n* 'iron'; PKam. **p̄ilka-* 'metal') [Мудрак 2000: 110 f.; KAMET 90; Fortescue 2005: 223]
| PAlt. **p̄aluk^v* 'hammer' [EDAL: 1077; ALTET 1617] | PIE. **pelek^v-* 'axe' [WP II: 46; PIET 881] < PEurAs. ***p̄alukⁱ* 'metal; (metallic) instrument' [ND: N°1716; NOSTRET 1490; NIODET 1117; Krougly-Encke 2023: N°A.81].

K.58. PKCh. **puje* 'warmed up on fire or on vapour; roasted meat; soot' (PChuk. **puze* " 'sooth; roasted meat'; PKam. **puje-* 'to warm on steam') [Мудрак 2000: 114; KAMET 111; Fortescue 2005: 218]

| PUr. **p̄iwe* 'hot; warm' [FUV: 6], **p̄ajwä* 'sun; fire' [UEW: 360] (FUg.), [URALET 725; Janhunen 1977: 120; Sammallahti 1988: 540]) | PYuk. **əpoj-*, **p̄əojə-* 'suntan, state of spring air, that makes the face tanned or wind-beaten; dry up slightly; be apt to get tanned, be get wind-beaten; get tanned, get wind-beaten' [Nikolaeva 2006: N°1841; JUKAET 1650] | PDr. **p̄ū-* 'spark; embers' [DED₂: N°4347; DRAVET 2109] | PIE. **pew[o]-*, **p̄wō-* (-r/n-) (PIH. **peH^wo-*) 'fire' [WP II: 14 f.; Pokorny: 828; PIET 859] | PKart. **px(w)-* 'warm' [EWK: 366-367] < PEurAs. ***p̄aywi* 'fire; hot; warm up (on fire), roast' [MCCHЯ: 352; Bomhard 1994: N°43; ND: N°1671; NOSTRET 301; Krougly-Encke 2023: N°A.12e].

K.59. PKCh. **q̄iy^wja-* 'to boil' (PChuk. **q̄iyza-* 'steam, vapor, evaporation'; PKam. **q̄ewⁱ-*, **q̄ejwi-* 'to boil') [KAMET 210; Мудрак 2008: 173]

▲ Cf. PChuk. **kezi-* 'cracklings' [CHUKET 1474].

| PAlt. **keju* (~ *k^v-*) 'to boil' [EDAL: 657; ALTET 751], deriv. in PAlt. **keju-r(ga)* 'kettle' | PEsk. **qaju-* 'blood broth; soup' [CED: 293 f.; ESQET 908; Мудрак 2011: 600] | PUr. **keje-* 'to boil (intr.); to become ripe' [UEW: 143 f.; URALET 281] | PYuk. **qaa-lə-* '(wood or purple willow) char; scorched; a scorched place' [Nikolaeva 2006: N°1986; JUKAET 743] | PDr. **kāj-* 'to be hot; to be dry' [DED₂: N°1458; DRAVET 548] < PEurAs. ***k^vejwV* (~ *q^v-*, *-ɣw-*) 'to be hot; to burn; to boil' [ND: N°1238; NOSTRET 686; NIODET 898; Мудрак 2011: 600; Krougly-Encke 2023: N°A.93a].

L. Mental activity, senses, religion.

L.1. PKCh. **ah̄a^vqu-* 'to recognize; to look in' (PChuk. **ex̄equ-* (~ *a*) 'to look out; to look in'; PKam. **hiq*, **haq til-k-* 'to know; to recognize; to understand; to know how') [Мудрак 2000: 26; KAMET 688]

| PAlt. **uk^vu* 'to understand; to look into' [EDAL: 1490 f.; ALTET 2503] | PEsk. **uki-* < **uki^v-* (> PIn. **ukki-ri-*, **ukki-tə-*) 'to stare at' [CED: 363; ESQET 1195; Мудрак 2011: 783] | PYuk. **ögə-* 'to give a glance; to look out; to look out for; to look leaning out' [Nikolaeva 2006:

N°1587; JUKAET 1225] | PNDr. **āq-* 'to know' (< PDr. **āk-*) [DED₂: N°17; DRAVET 97], cf. **voj-k-* 'to see' [DED₂: N°987; KOGAET 1486] | PIE. **okʷ-* 'eye' [WP I: 169 ff.; Pokorny: 775 ff.; Adams: 74 f.; PIET 822], cf. **euk-* 'to be in the habit' [WP I: 111; Pokorny: 347; Adams: 514; PIET 1319] < PEurAs. ***Huk'a ~ **Hak'u (~ -q'-)* 'eye; to see' [MCCHЯ: 333; OCHЯ 1: N°118; ND: N°125; NOSTRET 50; Мудрак 2011: 783; Krougly-Encke 2023: N°A.45b].

L.2. PKCh. **'ajilja-* 'terrible; to be frightened' (PChuk. **азьлјат- (~ -ly-)* 'to be afraid, to fear'; PKam. **č'il-, *č'ila-'l-, *'in-'ila-* 'to play pranks; to frighten; terrible') [KAMET 1253] | PEsk. **ilu-* < **ilu-* 'wicked; evil; angry' [CED: 129; ESQET 1410; Мудрак 2011: 299 f.] | PYuk. **ilə- O* 'to scold; to swear' [Nikolaeva 2006: N°560; JUKAET 495] < PEurAs. ***(?V)jilV (~ w-, -l-)* 'to frighten; terrible' [Мудрак 2011: 299].

▲ Otherwise, Eskimo item is linked to ?φ PAlt. **beIV* 'hysterics; panic; mourning' [EDAL: 338 f.; ALTET 119] | PUr. **pele-* 'to be afraid' [UEW: 370; URALET 749] / **peli-* [Janhunen 1981: 56; Sammallahti 1988: 539] | PTEL. **pel-* 'to fear, be alarmed' [DED₂: N°4419; TELET 2182] (any linkage to PSDr. **pēr-* 'afraid; fear' [DED₂: N°4419; SDRET 3708]?) < PEurAs. ***beIV* 'to fear; to be scared' [MCCHЯ: 331 f.; OCHЯ 2: N°377; ND: N°1704; NOSTRET 27].

L.3. PKCh. **'ajlǎ-, *'ajlǎ̃-* 'debt' (PChuk. **азсьл(-)* 'debt; to owe'; PKam. **'alāt-ыт-, *'asitst-* 'to beg; to get, to receive') [KAMET 945; Fortescue 2005: 16 (Chuk.)] | PAlt. **ič'V* 'to hope; to see' [EDAL: 579 f.; ALTET 588] | PFenn. **eccV-* 'to seek, to look for' | PIE. **ais-* 'to look for' [WP I: 12; Pokorny: 16], [Tischler 395 f. (with crit.); PIET 1272] < PEurAs. ***?ajcV (~ -č-, -c-)* 'to see; to search' [NOSTRET 853].

L.4. PKCh. **'ajuna* 'spirit; wisdom; god' (PChuk. **ajna(a)* 'spirit; god; idol; fabulous spirit; PKam. **'e(ʷ)η'uy* 'wisdom; sage') [Мудрак 2000: 22, 155 (Chuk.); KAMET 1041] | PAlt. **ēηV* 'to think; to understand' [EDAL: 511 f.; ALTET 462] | PFUg. **ajje* 'brain' [UEW: 5 ('Schläfe'); URALET 5] / **ajji* [Sammallahti 1988: 542] | PDr. **en-* 'to count' [DED₂: N°793; DRAVET 328] < PEurAs. ***?e(j)ηV, -a-* 'to understand; brain' [UEW: 5; ND: N°54, cf. N°777; NOSTRET 672; Мудрак 2011: 130].

L.5. PChuk. **'ьcъa-t-* 'to crack, to split (intr., tr.); splinter, shiver' [Мудрак 2000: 158; CHUKET 217; Fortescue 2005: 53] | PAlt. **č'iaju (~ *č'ioje)* 'a sharp bone, sharp instrument' [EDAL: 439; ALTET 2770] | PEsk. **caHunəb (~ -η-, -r-)* < **caHоньb (~ -η-, -r-)* 'bone' [CED: 72; ESQET 541; Мудрак 2011: 168] | PFUg. **sänkV* 'wooden nail, peg' [UEW: 435; URALET 892] | PSDr. **čān-* 'chisel' [DED₂: N°2445; SDRET 2091] < PEurAs. ***ČaηV* 'splinter; sth. sharp' [ND: N°2089; NOSTRET 1551; Мудрак 2011: 203].

L.6. PKCh. **'ьyčā-* 'to save sth., spare; to leave food' (PChuk. **Ra-ʒta-η-* 'to spare sth. for sb.',

PKam. **'an-xbca-* 'to save, leave food') [Мудрак 2000: 199 (Chuk.); KAMET 512], cf. **byta-m-* 'thrifty; to be stingy, sparing' [Мудрак 2000: 199 (Chuk.); CHUKET 397] | PAlt. **kače* 'to wish; to intend' [EDAL: 626; ALTET 693] | PFP. **kace-* 'to see; to look; to notice' [UEW: 640; URALET 1270], PUg. **kečV-* 'to follow the tracks' [URALET 1796] | PKZ. **qs-* 'to remember' [Мудрак 2000: 267; EWK: 568; KARTET 855] < PEurAs. ***qacV* 'to notice; to intend' [NOSTRET 1706].

L.7. PChuk. **byLo* " 'boredom; sadness' [Мудрак 2000: 166; CHUKET 342; Fortescue 2005: 89]

| PAlt. **giolo* 'to be unhappy, to endure' [EDAL: 555; ALTET 2655], cf. PTurk. **Kila-yu* 'cattle illness' | PFUg. **kolja* 'evil spirit' [UEW: 173; URALET 343] | PSDr. **gōl- / *gōr-* 'grief, lament' [DED₂: N^o2252; SDRET 1939], cf. PDr. **gil-i* 'fear' [DED₂: N^o1572; DRAVET 385] | PIE. **g'hal-* 'wound; damage' [WP I: 540; Pokorny: 411; Tischler: 464; PIET 378] | PKZ. **gl-* 'to weep, mourn' [Климов 1964: 63; EWK: 86; KARTET 383; Klimov 1998: 31] < PEurAs. ***gil(H)V* (~ *-o-*) 'painful state, grief' [МССНЯ: 331, 337; ОСНЯ 1: N^o83; ND: N^oN^o612, 625; NOSTRET 17].

L.8. PKCh. **'bigr-* 'to cry' (PChuk. **(a)BRb-* (~ **(a)qrb-*) 'to scold: to make cry' [CHUKET 2081]; PKam. **č'(?)a-č'(?)a-* 'to cry, weep') [sub KAMET 1049]

| PAlt. **oru* 'to cry; to shout' [EDAL: 1061 f.; ALTET 1582] | PDr. **jer-* 'to weep, cry' [DED₂: N^o282; DRAVET 459] | PIE. **ar-* (PIH. **a-*) 'pray' [WP I: 182; Pokorny: 781; Tischler: 56, 73 f.; PIET 1360] | PKart. **yar-* / **yr-*, **yaryar-* 'to cry; to sing' [Мудрак 2000: 201; EWK: 385 f.; KARTET 422] < PEurAs. ***yorV* 'cry (vb.)' [МССНЯ: 345], [ND: N^o721; NOSTRET 217].

L.9. PChuk. **byani-* 'to be unable, can not; to be wrong' [CHUKET 1541; Fortescue 2005: 161]

| PDr. **negg-* 'loose; weak; relaxed' [DED₂: N^o2923; DRAVET 1071] | ?φ PIE. **(s)lēg-* 'soft; weak; to be soft, weak' [WP II: 712 ff.; Pokorny: 959 f.; Friedrich: 258 f.; PIET 2670] < PEurAs. ***le(H)KV* 'weak'.

L.10. PKCh. **'lmal-* 'to believe' (PKam. **btmat-* 'confiding; obedient; to believe; to obey'; PKam. **limal-* 'to believe') [Мудрак 2000: 88; KAMET 388; Fortescue 2005: 164]

| PAlt. **lami* 'convenient; helpful' [EDAL: 865 f.; ALTET 1399] | PDr. **nam-* 'to believe' [DED₂: N^o3600; DRAVET 981] < PEurAs. ***lamV* 'to believe; to help' [NOSTRET 1113].

L.11. PKCh. **'b'lvō-*, **'ina-λvo-* 'to speak; to promise' (PChuk. **btbь-*, **ina-tb-at-* 'to say, speak; to tell; to promise; word; express'; PKam. **lo-* ~ **I'wь-*, **an-lo-* 'to speak; to promise') [Мудрак 2000: 129; KAMET 377; Fortescue 2005: 304; Мудрак 2008: 127 f.]

| PIE. **lep-* 'shout; mutter' [PIET 2360] < ? PEurAs. ****IVPV** 'shout; speak'.

L.12. PKCh. **'ьмі-* 'to play; to dance' (PChuk. **'ьmlab-* 'to dance'; PKam. **ма'-le-* 'to play') [Мудрак 2000: 94; КАМЕТ 610; Fortescue 2005: 182], cf. PKam. **maj'a-* (-ноя) 'to play; to enjoy os., to make merry' [ИТЕЛЕТ 19]

b→ PYuk. **имізе-* 'to dance' [JUKET 689] and (?) PNiv. **im-* 'to suffer the disease of imitation' [NIVGET 230], cf. [NIODET 191]

| ? PAlt. **mebo* (~ -p-) 'to shamanize; to dance' [EDAL: 907; ALTET 1269] | PIE. **(a)mewə-* 'to move; to drive' [WP II: 252 f.; Pokorny: 743; Adams: 463; PIET 2152] | PKart. **mqw-* 'to fall; to fall over' [EWK: 256 f.; KARTET 706] / **nqw-* [КЛИМОВ 1964: 149] < PEurAs. *****(H)mVqwV*** 'move; push' [ND: N^o1455; NOSTRET 118].

L.13. PKCh. **'эмлѣ-* 'to punish' (PChuk. **'эмсе-* (~ a) 'to fear from experience, get a lesson; to beware, guard o.s.; to teach a lesson, punish; to train, tame; to intimidate'; PKam. **'имзь-* 'to punish') [Мудрак 2000: 186 (Chuk.); КАМЕТ 1078; Fortescue 2005: 180 (Chuk.)]

| PAlt. **mole* 'sick; weak' (PTurk. **bül-* 'to be destroyed, ruined; to destroy'; PTung. **mul-* 'to fall ill; weak, tired'; PKor. **mira-* 'soft; weak'; PЯп. **mərə-* 'fragile') [EDAL: 941 f.; ALTET 1344] | PFUg. **m[o]IV* 'little' | PDr. **māl-* 'to die; to destroy' [DED₂: N^o4831; DRAVET 820] | PIE. **(s)mal-* / -e- 'malicious, liar' [WP II: 291; Pokorny: 719 f.; PIET 769], **(s)mōl-* 'small' [WP II: 291; PIET 778] | ?σ PGZ. **mal-* 'to hide, hide oneself' < PEurAs. *****mol(H)V*** 'bad; sick; weak' (> 'small') [ND: N^oN^o1402, 1405; NOSTRET 790].

L.14. PChuk. **'ьмраз-* 'to be satisfied; luck' [CHUKET 857]

▲ b→ PYuk. **маар-* (~ -δ-) 'lucky; happy; luck; happiness; to wish happiness to sb.' [Nikolaeva 2006: N^o1155; JUKAET 996] and PNiv. **amra* 'luck' [NIVGET 2276], cf. [NIODET 420].

| ?σ PAlt. **miore* (~ -r-) 'to long, show affection' [EDAL: 929; ALTET 1318] < ? PEurAs. *****morI*** (~ -r-) 'to long; to be lucky'.

L15. PChuk. **'ьпра-* 'clumsy, awkward' [CHUKET 2252]

▲ Metathized < **'ьр-па-*?

| PAlt. **op'a(rV)* 'to wear out, be wasted, have a bad look' (PTurk. **op-ra-* 'to wear out (intr.), decay'; PMong. **(h)obur* '(bad) appearance; arrogance'; PTung. **(x)upara-* 'to neglect, mistake'; PЯп. **ampu-* 'to waste, discard, throw away; to suffer a loss, roam in a wasted state') [EDAL: 1057; ALTET 1576] | PIE. **āp[e]-* 'ill; weak' [WP I: 47; Pokorny: 52; Adams: 17; PIET 1283] < PEurAs. ****?op'V** 'weak; exhausted' [NOSTRET 1164].

L.16. PKCh. **'ьрҕыл-* ~ **'ьҕрҕыл-* 'new, report' (PChuk. **'ьрҕыт-*, **'ьрҕыт-* 'to speak, talk; new, report; to ask, question; to bring news'; PKam. **'ampela-* 'to announce; report') [КАМЕТ 989]

| PYuk. **pundu-* (-nd-) *B* 'to speak about; to retell, tell; to talk scandal, set a rumour afloat' [Nikolaeva 2006: N°1938; JUKAET 925] | PDr. **pan-* ~ **pan-* 'command; speak; send' [DED₂: N°3887; DRAVET 1178] < PEurAs. ***pVŋ V* (~ *p^ʕ-*) 'speak'.

L.17. PChuk. **ьqRaq-* 'to call to fight, to compete' [CHUKET 2185]
| PAlt. **kero* 'to fight; to kill' [EDAL: 671; ALTET 773] | PFUg. **karV-* 'to be afraid, scared' [UEW: 129; URALET 250], **kira-* 'to swear' cf. [UEW: 220], [URALET 316] / **kirá-* [HPUL: 543] | PDr. **kir-* 'anger; angry; displeased' [DED₂: N°1597; DRAVET 600] | PIE. **kar(w)-* 'to offend; to punish' [WP I: 353; Pokorny: 530; PIET 1494] | Geor. *krul-* 'to curse, to damn', *kriv-* 'to box, to fight with fists' < PEurAs. ***KVr(w)l* 'anger; fight' [OCHЯ 1: N°172; ND: N°N°657, 1124; NOSTRET 630].

L.18. PChuk. **ьтѣ-тіл-*, **гѣ-тіл-* 'to lie, lie about' [Мудрак 2000: 201 f.; CHUKET 1125; Fortescue 2005: 256 (+ incorr. Kam.)]

The 1st part is a var. of PChuk. **ьсьль-*, **Рьл-yal-* (~ *-л-*) 'to lie, lie down; to lie (of animals); to crawl into' (< PKCh. **ǵólo-* ~ **'oǵlo-* 'to lie', cf. N°A.32);
the 2nd, PChuk. **-тіл-* 'to fall (from above)' (< PKCh. **тіл-* 'to fall', q.v.).

L.19. PChuk. **ььтїнаг-* 'to visit; to look out, look in' [Мудрак 2000: 204; KAMET 1178; Fortescue 2005: 74]

| PIE. **sterg-* 'to love' [WP II: 642; Pokorny: 1032; PIET 2582] | PKart. **čir-* 'to need, have a need' [Климов 1964: 255; EWK: 539 f.; KARTET 305] < PEurAs. ***č'lrV* (~ *-r-*) 'to care' [OCHЯ 1: N°56; ND: N°432; NOSTRET 164].

L.20. PKCh. **'əčkej-u-* 'thought; mind, intelligence; to find; to think' (PChuk. **əckež-u-* 'mind, intelligence; thought; clever; to recover; life force; to think'; PKam. **'ičiki^w-k-* 'to find') [Мудрак 2000: 83 (Chuk. + incorr. Kam.); KAMET 1200]

| PAlt. **siāk'a* 'to think; to worry' [EDAL: 1265 f.; ALTET 2038] | PFP. **šoke-* 'to say, speak' [UEW: 786; URALET 1640] | PIH. **sek^w-* 'to see, to notice' [WP II: 477 ff.; Pokorny: 897-898; PIET 2404] (+ Hitt. *sakuwa* n. pl. 'Augen', *sakuwai-* (I) 'sehen, blicken' [Friedrich: 177]), (?)
PIE. **sek^we-*, **sk^wē-* 'to tell, talk' [ibid.; PIET 2403] < PEurAs. ***cVk^ʕV* (~ *c-, š-, -q-*) 'to see; to know' [ND: N°N°2030, 2152, 2191 NOSTRET 851].

L.21. PKCh. **'əyjin-θe-* 'to aspire, strive; lustful, lubricous; gambling' (PChuk. **əyjin-*, **əyjinRe-* 'to caress, snuggle up; lascivious; gambling; to strive to fish / hunt'; PKam. **xanl-* 'to woo; to marry') [Мудрак 2000: 165 (Chuk.); KAMET 1160; Fortescue 2005: 87 f. (Chuk. + diff. Kam.)]

| PTurk. **on-* 'to thrive, prosper' | PFL. **(w)onne* 'luck' | ?μ PDr. **va(jŋ)-* 'desire, longing' [DED₂: N°5257; DRAVET 1945] | PIH. **wen-* 'to wish, to love' [WP I: 258 f.; Pokorny: 1146 f.;

Adams: 601 f.; PIET 1425] (+ Hitt. *wen-*, *went-* (I) 'futuere' [Friedrich: 252]) < PEurAs. *****(y)wVnV*** 'to wish, to seek for (sexually)' [ND: N°2495; NOSTRET 1617].

L.22. PKCh. ***'əh̥jiv-** 'known; name' (PChuk. ***əyʒib-** 'to be known'; PKam. ***hela-ŋ ~ *hā'wl̥eŋ** 'name') [Мудрак 2000: 165; KAMET 522; Fortescue 2005: 88; Мудрак 2008: 57] | PYuk. ***ki-ri-jə- (-ɔ-)** 'name; to name' [Nikolaeva 2006: N°837; JUKAET 479] | PIE. ***g'haw[a]-, *g'hw[ā]-** 'to call' [WP I: 529 f.; Pokorny: 413 f.; PIET 1628] < PEurAs. ****gijwV ~ **?VgijwV** 'to call' [NIODET 301; NOSTRET 1802; Krougly-Encke 2023: N°A.57b].

L.23. PKCh. ***'əh̥r̥h̥ə** 'wrong; sinful' (PChuk. ***bəRbə- (ə)** 'false, lying; to lie (tell lies)'; PKam. ***'č'āhi-l-** 'sin; (pagan) feast') [KAMET 1165; Fortescue 2005: 273 (Chuk.); Мудрак 2008: 35]

| PAlt. ***č'ra** 'to go astray, mistake' [EDAL: 520 f.; ALTET 465] | PPerm. ***erä** 'to be destroyed' | ? PSDr. ***ir-** 'to die; to extinguish' [DED₂: N°5298; SDRET 465] (but foll. G. Starostin, to PDr. ***ed-** 'to go beyond, transgress' [sub DED₂: N°515; DRAVET 2145]) | PIE. ***er(e)-, *rē-** 'friable; thin' [WP I: 142 f.; Pokorny 332 f.; PIET 1334] < ? PEurAs. ****?erHV** 'to go beyond; to make a mistake, be wrong' [MCCHЯ: 359; OCHЯ 1: N°107; ND: N°779; NOSTRET 486].

L.24. PKCh. ***'əjil-** 'to prepare (intr.), to get ready; to become, to turn to' (PChuk. ***'əʒit-** 'to mature; to get ready, to prepare (intr.); to become'; PKam. ***'āzil-**: ***lin-'āzil-**, **-s-** 'to prepare' (***lin-** caus. pref.) [KAMET 616]

?σ | PAlt. ***iikV** 'to hope; to believe' [EDAL: 585 f.; ALTET 594] | PAI. ***ilya-** 'to search, look for' [AD: 194] | PFUg. ***vāLV** 'to wish, desire' [Collinder 1955: 122] | PDr. ***vēl-r-** (?) 'to wish, want; pleasure' [DED₂: N°5528, part.; DRAVET 1787] | PIE. ***(e)welə-** 'to choose; to wish' [WP I: 294 f.; Pokorny: 1137 f.; PIET 1452] < PEurAs. ****wiLxV** 'to wish' [MCCHЯ: 340; ND: N°2475; NOSTRET 146].

L.25. PKCh. ***'əlywi** 'to know; truth; really' (PChuk. ***əlyi, *əlyi** 'real; valid; truth; very (usually in compl.); to know (intr., tr.)'; PKam. ***li'wi (~ *ilywi)** 'real; valid; very') [Мудрак 2000: 79 f.; KAMET 390; Fortescue 2005: 162, Chuk. + diff. Kam.], cf. PKam. ***lili** 'truth; true' [ITELET 1569]

| PAlt. ***āli** 'to know; to listen, hear' [EDAL: 293; ALTET 26] | PFP. ***ālwä** 'understanding, mind; to understand, percieve' [UEW: 609; URALET 1210] | PD ***āl-** 'to hear, listen' [DED₂: N°383; DRAVET 1859] < PEurAs. ****Hal(Hw)V** 'to know, understand, believe' [ND: N°128; NOSTRET 647].

L.26. PKCh. ***('ə)lpuh̥θə-** 'order (of sth.); barter' (PChuk. ***lpuəRə- (*lpuəRbə- (~ -b-, -y-, -ʒ-, u))** 'change, barter; instead; to change, replace'; PKam. ***lipele-** 'to order') [KAMET 1259; Fortescue 2005: 218 (Chuk. + incorr. Kam.)]

| PAIt. **ulbo* ~ **ulo* (~ *-í-*, *-u*, *-o-*, *iu-* *-o*) 'to change' [EDAL: 1493; ALTET 2509] < PEurAs. ****?UlbV** (~ *-í-*) 'to change'.

L.27. PKCh. **(ə)ʎliu-* 'to like, to love' (PChuk. **cxəʎə-* (~ *tx-*, *ə?*) 'to love, to like; love; friendly' (< *"cxə-əʎə-*); PKam. **xu-tʷa-lä-*, **(ʷ)lxʷu-tʷa-lä-* (~ *-lxʷ-*) 'to like, to love') [Мудрак 2000: 209 (Chuk.); KAMET 1212]

| PDr. **ol-* / **val-* 'to love; to desire; sth. possible' [DED₂: N°1006; DRAVET 1110] < PEurAs. ****HVIV** 'to wish; to love'.

L.28. PKCh. **əʎjə-* ~ **ʎejjə-* 'to laugh' (PChuk. **tejjə-* (~ *a*) 'to laugh; to mock'; PKam. **lijʷ* ", **lij-i* (~ **sij-i-k-*) 'laugh; to laugh') [KAMET 356; Fortescue 2005: 280 f.; Мудрак 2008: 126-127]

| PKZ. **lxen-* / **lxin-* 'to be satisfied' [EWK: 223; KARTET 661] < EurAs. ****IVxyV** 'to be satisfied, glad'.

L.29. PKCh. **ən'yulev-* 'to learn, get to know' (PChuk. **əyʒute-t/b-*, **əʒyute-t/b-* 'to know; to learn, get to know; to learn (to know); to teach, edify'; PKam. **'inyili-* (~ **'enyɫe-*) 'to learn, get to know; to feel out') [Мудрак 2000: 39 (Chuk. + diff. Kam.); KAMET 608; Fortescue 2005: 88 (Chuk.)]

?σ | PAIt. **gēla* 'to search; to hunt' [EDAL: 537; ALTET 494] | PIE. **g^{wh}hel-*, **ghel-* 'to want, wish' [WP I: 692; Pokorny: 489; PIET 1770] < PEurAs. ****gelV**, *-u-* 'to wish; to search' [ND: N°614; NOSTRET 1313].

▲ Cf. PDr. **ka-* 'to learn' [DED₂: N°297; DRAVET 489].

L.30. PKCh. **(j)iv-u-* 'to speak; to tell' [Мудрак 2000: 57; KAMET 465; Fortescue 2005: 105 (Chuk.)], PChuk. **əʒbit* 'order; to order' [Мудрак 2000: 176; CHUKET 577]

| PAIt. **ip'i* (~ *-p-*, *-e*) 'mouth; to say, speak' [EDAL: 589 f.; ALTET 606] | PEsk. **pi(j)-*, **pi-ru-* 'to say' [CED: 258 f.; ESQET 670; Мудрак 2011: 558 f.]; PEAl. **hi-* 'to say, utter; to quote (proverb); to tell; to tell, order; to call, summon (people)' [AD: 167 f.] | ?φ,σ PFUg. **apta-* (**opta-*) 'to bark' [URALET 22] / PFP. **optV-* [Sammallahti 1099: 552] | PSDr. **ēv-* 'to command' [DED₂: N°909; SDRET 798] | PIE. **pAjə-* 'to sing' [PIET 3015] < PEurAs. ****Hip(°)V** (~ *-j-*) ~ ****p(°)VjHV** 'to say, speak; to sing' [ND: N°60; NOSTRET 682; ESQET 670; Мудрак 2008: N°136; Мудрак 2011: 559; Krougly-Encke 2023: N°A.56a].

L.31. PKCh. **kəvlə-* (~ **kəyʷlə-*) 'to whirl, spin, turn; to turn round; round; wheel' (PChuk. **kəyLə-* 'to twirl, spin; wheel'; PKam. **k'iləʷ-*, **k'iyʷli-t-* 'to twirl; wheel') [Мудрак 2000: 73; KAMET 251; Fortescue 2005: 156; Мудрак 2008: 102], cf. PChuk. **kəyL-(uk)* 'round in shape' [CHUKET 1811].

| PAIt. **k'ulo* (*-bV*) 'to roll; to turn' [EDAL: 850; ALTET 1141], PAIt. **k'iuli* 'to wind; to

plait' [EDAL: 817; ALTET 1079] | PYup. **kəli-(t-)* ~ **əkli-* 'to twist' [ESQET 1971; Мудрак 2011: 888] | PUr. and PYuk. contaminate with PEurAs. ***gulV* (~ *-ĭ-*) 'to go; to walk', cf. N^oA.92c | PDr. **Kul-* 'to turn' [ОСНЯ 1: N^o202] | PIE. **k^wele-* 'to move around; to drive (the herd)' [WP I: 514 f.; Pokorny: 639 f.; PIET 1620], **k^wel-* 'wheel' [WP I: 514 f.; Pokorny: 639 f.; PIET 602], **k^(w)Alb(h)-* (OGr. *κόλλαβος* 'wheat bread' ←b Thrac.?.; Russ. *колоб* 'round cake') | ? PKZan. **kwer-* 'round; flapjack; ball shaped paste, scone' [Климов 1964: 110; EWK: 198; KARTET 620] / **kwerkwer-* 'round object' [Klimov 1998: 93] < PEurAs. ***k[']ulV* ~ ***k[']VwIV* 'to turn; to roll, wind' [МССНЯ: 332, 345 с.; ОСНЯ 1: N^o202; ND: N^o1054; NOSTRET 35; NIODET 1416; Мудрак 2011: 888; Krougly-Encke 2023: N^oA.69a].

L.32. PKam. **pey^we-* ~ **bey^we-* 'to roar (of bull, of bear)' [ITELET 1551] | PAlt. **pūgo* 'distressed, restive' [EDAL: 1107; ALTET 1692], cf. PMong. **bayabayaj* 'bear' (←b?) | PYup. **payuk-nax* < **päyuk-nax E* 'grizzly bear' (+ Sir. *рахкәпәваҳ*) [CED: 252; YUPET 1300; Мудрак 2011: 910] | PDr. **pok-* 'to speak; to cry' [DEDR: N^o4233; DRAVET 1311] | PIE.: Lit. *būgti, būgstu* 'to be afraid', *baugūs* 'fearful'; Rus. *пугать, пужать (-аю)*, Byel. *пужаць* 'to frighten, scare' [Фасмер 3: 399 f.], cf. Rus. *бука* 'elder, warden, chief; boggart for naughty children' [Фасмер 1: 235 f.] < PEurAs. ***pugV* 'to roar (of bear or sim.); > to be afraid; to frighten' [Мудрак 2011: 910].

L.33. PKCh. **qal-yə-* (~ *k-*) 'shout' (PChuk. **qalyV-* 'to cry; to wheeze'; PKam. **kel-* 'to shout') [Мудрак 2000: 115; КАМЕТ 264; Fortescue 2005: 389 (only Kam.)] | ? PEsK. **qalwu/i-в-* 'make characteristic sound (animal)' [CED: 279; ESQET 846; Мудрак 2011: 605] (←b KCh.?), Pln. **qali-gu-* 'growl' [CED: 272; INUPET 968; Мудрак 2011: 1007], PEsK. **qalma-в-* 'lure; call; flirt' [CED: 279; ESQET 847; Мудрак 2011: 606]; Al. (Atk.) *qalvi-mix-s* 'clear one's throat' [AD: 303] | PIE. **(s)kale-*, **klā-* / **klē-* 'shout; call' [WP I: 443 f.; Pokorny: 458 ff.; PIET 1554] | Geor. *kel-* 'raise shouts' < PEurAs. ***k[']al(H)V* 'call; shout' [Долгопольский 1964: 18; МССНЯ: 336 с.,; ОСНЯ 1: N^o221; ND: N^oN^o1049, 1053, 1039; NOSTRET 95; Мудрак 2011: 659, 922; Krougly-Encke 2023: N^oA.57a].

L.34. PKCh. **'uq'ra-* 'to cry; to shout' (PChuk. **'zgra-* 'to shout'; PKam. **'uqč'-* 'to cry') [sub КАМЕТ 1049] | PAlt. **k'ēro* 'to shout; to speak' [EDAL: 781 f.; ALTET 1024] | PFUg. **kerä-* 'to ask' [UEW: 149; URALET 291] | PDr. **kēr-* 'to shout; to crow' [DED₂: N^o1960; DRAVET 586], cf. **kīr-* (*-d-*) 'to cry; to call' [DED₂: N^o1590; DRAVET 610] | PIE. **kar[a]-*, **kr[ā]-* 'to shout; to praise' [WP I: 353 f.; Pokorny: 530 f.; PIET 1495] | PKart. **kir-* / **kil-* 'to shout' [KARTET 571] / **ki-* [Климов 1964: 112] / **kiw-* [EWK: 201 f.] < PEurAs. ***ker(w/H)V* 'to shout; to call' [МССНЯ 342; ОСНЯ 1: N^o199; ND: N^o1150; NOSTRET 174].

M. Verbs of state, of motion.

M.1. PKCh. **'ájřǝ-* 'to close' (PChuk. **áźřǝ-*, **áźř-i-* 'to close; to block; to cover; wind-fence; dam'; PKam. **'éjřu-* 'to close; to cover') [ЭСЧКЯ: 154 (Chuk.); KAMET 570] | PAlt. **apV* 'to take' [EDAL: 309; ALTET 47] | PIE. **ap-* 'to clench; to tie round' [WP I: 46; Pokorny: 50 f.; Tischler: 107 f.; PIET 1282] | PKZ. **up-* 'to possess' [КЛИМОВ 1964: 186; EWK: 346; KARTET 1131; Klimov 1998: 96] < PEurAs. ***ʔajřV*, *-u-* 'to take; to seize' [ND: N⁰69; NOSTRET 1199].

M.2. PKCh. **'áľik-* 'to dive, to plunge' (PChuk. **atřik-at-* 'to bathe; to swim (of humans); to dive upside down'; PKam. **'ǎľ'e-k-* 'to reach from below, from water') [KAMET 578; Fortescue 2005: 20] | PAlt. **éIV* 'to scratch; to rake; to row' [EDAL: 502 f.; ALTET 423] | PEsk. **atřuk- ~ *atřuk-* < **atřov- ~ *atřov-* 'to dive into water' [CED: 33; ESQET 1680; Мудрак 2011: 111 f.] | ? PDr. **al-* '[to sprinkle]; to bail out' [DED₂: N⁰305; DRAVET 36] (contam. of 2 roots?) < PEurAs. ***ʔelHV* 'to rake; to row; to swim' [Мудрак 2011: 111].

M.3. PKCh. **'áľwátiĵ-* 'to creep' (PChuk. **elyetiĵ-et-* (~ *a*) 'to creep; to crawl on all fours'; PKam. **ľxeti-*: **'la-ľxeti-* 'to creep' (with **'il-*, **'isi-* (~ *-i^w-*) 'to go; to walk; to part')) [KAMET 582; Fortescue 2005: 33]

▲ Metathesis?

ʔφ | PDr. **val-i* 'creeper, liana' [DED₂: N⁰5316; DRAVET 1712], PSDr. **val-ai* 'k. of plant (creeping bindweed *Ipomoea aquatica*)' [DED₂: N⁰5319; SDRET 4436] | PIE. **(e)wel-* 'a k. of creeper; tendril' [WP I: 298 f.; PIET 1457] < PEurAs. ***HwaIV* 'to creep'.

M.4. PKCh. **'áľ-* 'to lie down; to lie' (PChuk. **ac-sěbat-* 'to lie down; to lie; to fall'; PKam. **'ǎľ'i-* (*ľ?*) 'to lie down; to lie down (for a while)') [Мудрак 2000: 21; KAMET 553; Fortescue 2005: 15]

| PTurk. **ast-* 'down' | PEsk. **aci* < **ăci ~ *ace-* 'area below; downward' [CED: 3, 47; ESQET 570; Мудрак 2011: 68 f.] | PUr. **ecV-* 'to fall' [UEW: 71; URALET 129] / PFUg. **eskä* [Sammallahti 1988: 541] | PIE. **ēs-* (PIH. **ē-*) 'to sit' [WP II: 486; Pokorny: 342 f.; Tischler: 75, 77, 110 f.; 79; Friedrich: 191; Adams: 58, 654; PIET 2411] < PEurAs. ***ʔacV* 'down; > to lie; to sit; to fall' [NIODET 1233; Мудрак 2011: 68].

NB. Cf. PAlt. **uĉ'o* 'to fly; to fall' [EDAL: 1483; ALTET 2484].

M.5. PChuk. **apařǝ-* '(to lie) prone; to crawl (in)' [CHUKET 94]

| PAlt. **bóke* 'to lie in ambush' [EDAL: 370 f.; ALTET 186] | ? PFUg. **puke* 'to crawl' [UEW: 401; URALET 820] < PEurAs. ***boke* 'to lie (prone); to crawl'.

NB. Cf. PAlt. **p'ok'e* 'to fall; to lie' (PTurk. **ök-* 'to fall down; to bow down'; PMong. **(h)öke-* 'to bow forwards'; PTung. **pukeľ-* 'to lie; to roll down; to fall') [EDAL: 1168;

ALTET 1820].

M.6. PKCh. **'arhāj-* 'to walk clumsily' (PChuk. **arhaz-* 'to walk straddling the legd'; PKam. **'ap'ēs-* "'steps (separate, uncertain); to slide; to slip') [Мудрак 2000: 22; KAMET 687] | PAlt. **p'ioṛ'[a]* 'to walk; to go away' [EDAL: 1157; ALTET 1795] | PDr. **pō-* 'to go' [DED₂: N°4572; DRAVET 1337] < PEurAs. ***poxwi ≈ **pax(w)V* 'to go; to walk'.

M.7. PKCh. **'bjč'yal-* 'to go to visit; to move' (PChuk. **bjčb-, *bjčb-* 'to bring, get; to go for sth., move to sb.; direct. case; to bring sb., bring sth.; caravan conductor, "the bringer"; PKam. **sč'el-, *sč'il-, *in-sčela-* 'to ride; to move with') [Мудрак 2000: 62; KAMET 188; Fortescue 2005: 124 (Chuk.)] (**-yal* durat. or persist.suff.) | PAlt. **iče* 'to go, reach, get ready to go' [EDAL: 579; ALTET 586] | PUr. **j[os]sV* 'to ski, toboggan' | PIE. **eis-* 'to fall upon, to act sharply' [WP I: 106 f.; Adams: 107; PIET 1315] < PEurAs. ***jVCV* 'to hurry, move quickly' [ND: N°2650; NOSTRET 351].

NB. Cf. PKCh. **(j)iθ- (-u-)* 'to part' [KAMET 647].

M.8. PKCh. **'bjp'bj-* 'to get stuck in a hole; to pant' (PChuk. **bjp'bj-at-* 'to put in; to pluck with o.s.; to get stuck in a hole; to fall into a cavity'; PKam. **'arbj-* 'to pant') [Мудрак 2000: 164 (Chuk.); KAMET 1051; sub Fortescue 2005: 122] | PAlt. **pōga* 'to tie up; to strangle' [EDAL: 1101; ALTET 1669] | PEsk. **apə-* < **brb-* ~ **apə-* 'to suffocate' [CED: 112 f.; ESQET 1339; Мудрак 2011: 257 f.] | PFUg. **puwV (*puj V)* 'to suffocate' [UEW: 411; URALET 842] / **puwa-* [Sammallahti 1988: 547] < PEurAs. ***po(j)γV (~ -(j)η-)* 'to strangle; to suffocate' [UEW: 411; NOSTRET 1883; Мудрак 2011: 258].

M.9. PChuk. **bjto-* 'to reach (with one's hand); to extract; to give birth; to dig out' [Мудрак 2000: 36 (KCh. + dub. Kam.); CHUKET 268; Fortescue 2005: 125] (KCh. + dub. Kam.) | PUr. **juta-* 'to go; to wander' [UEW: 106; URALET 203] < PEurAs. ***jUt(°)V* 'go; wander'.

M.10. PKCh. **'bjv-bklb-* 'to hit; to hurt' (PChuk. **bjb'klb-* 'to hit'; PKam. **'uzil-it-* 'to hit') [Мудрак 2000: 36; KAMET 600; Fortescue 2005: 126 (Chuk.); Мудрак 2008: 217]

The 1st part: PAlt. **eba* 'to join; to meet' [EDAL: 488; ALTET 1] | PEsk. **əvaja-в-* < **bvaja-в-* 'to rob, steal' [CED: 148; ESQET 1459; Мудрак 2011: 276] | PYuk. **jew-* 'to hit (tr., intr.); to attack' [Nikolaeva 2006: N°686; JUKAET 194] < PEurAs. ***jewV (~ -γw-)* 'to join, meet (?); to hit' [Мудрак 2011: 946];

the 2nd part: PIE. **kola-, *klā-* 'to beat; to break; to kill' [WP I: 436 f.; Pokorny: 545 ff.; PIET 1549] < PEurAs. ***k'VIV (~ -l-)* 'to beat; to stab'.

M.11. PKCh. **'bnvaλ-* 'to bend, bow' (PChuk. **bnbat-, *š-bat-* 'to wrap; to come back, return;

to bend (tr.); to crease in clothes; to unroll'; PKam. **'na^wla-* 'to bend, bow (intr.?)' [Мудрак 2000: 189 (Chuk.); KAMET 905; Fortescue 2005: 192; Мудрак 2008: 139]

| PEsk. **Nəvi-~~в~~* (~ **əpvi-~~в~~*) < **N^bve-~~в~~* (~ **^blve-~~в~~*) 'to curve' [CED: 232; ESQET 386; Мудрак 2011: 484 f.] | PIE. **newə-* 'to incline; to nod' [WP II: 323 f.; diff. in Vasmer; Pokorny: 767; PIET 2233] < PEurAs. ***nVwHV* 'to curve; to bend; to incline' [Мудрак 2011: 902].

M.12. PKCh. **'bnto-* ~ **'b^wto-* 'to go out' (PChuk. **'b^hto-* 'to go outside; to be born'; PKam. **'inist^w-* (~ *-m-*) 'to go outside') [Мудрак 2000: 104; KAMET 74; Fortescue 2005: 203-204]

| PAlt. **noču* 'to seize; to steal' [EDAL: 995; ALTET 1499] | PEsk. **nucuy-* < **nuciy-* 'to pull; to tug' [CED: 236; ESQET 406; Мудрак 2011: 486] < PEurAs. ***noču* 'to pull out; to go out' [Мудрак 2011: 486].

M.13. PKCh. **'b^hya-jčo-* 'to jump, leap' (PChuk. **'b^hya-^hč^h-* 'to jump, leap; to skip, hope'; PKam. **'i^hy^waj-(č^ho-)* 'to jump, leap; to skip, hope') [Мудрак 2000: 139; KAMET 133; Fortescue 2005: 292]

| PAlt. **t'ogsu* 'to run; hare' [EDAL: 1451; ALTET 2419] | PYuk. **təa-nu-* 'to jump on one place (raising high the hind legs, of reindeer calf, reindeer)' [Nikolaeva 2006: N°2402; JUKAET 1421] | PDr. **tāk-* 'to walk' [DED₂: N°3151; DRAVET 1501] | PIE. **tek^w-* 'to flow; to run' [WP I: 715 f.; Pokorny: 1059 f.; Adams: 249; PIET 1794] | PKZ. **tik-* (? **tlik-*) 'to run away quickly' [EWK: 333 f.; KARTET 1102] / **tikwn-* [КЛИМОВ 1964: 181] < PEurAs. ***t'ogV* 'to jump; to run' [ND: N°2346; NOSTRET 258], [NIODET 237].

M.14. PKCh. **'btvi-(λ-)* 'to pull; to extend; to hang' (PChuk. **'btbit-* 'to pull (a strap for drying); to stretch (drying skin); to pull off; to skin; to jerk'; PKam. **'it'i-* 'rack, hanger') [Мудрак 2000: 208 (Chuk.); KAMET 1094; Fortescue 2005: 305 (Chuk.); Мудрак 2008: 77]

| PDr. **tiv-* 'to take out, remove' [DED₂: N°3407; DRAVET 1548] < PEurAs. ***TibV* (~ *-w-*) 'to pull; to take out'.

M.15. PChuk. **(~~в~~)ey^het/b-* 'to part, set off' [CHUKET 138]

| PEsk. **ayə-* < **āyə-* 'to go on walks' [CED: 7, 55; ESQET 594; Мудрак 2011: 71 c.] | PYuk. **eg-rə-, egi-* ~ **ew-rə- O* 'to walk, go on walks' [Nikolaeva 2006: N°408; JUKAET 114] < PEurAs. ***^hegwV* (~ *H-*) 'to walk' [NIODET 136; Мудрак 2011: 71].

▲ Cf. PNiv. **ey-* 'to come back' [NIVGET 156].

▲ O. Mudrak [Мудрак 2011: 71] alternatively links Eskimo item to PAlt. **dāga* 'near; to follow' [EDAL: 456; ALTET 346].

M.16. PKCh. **'əj^hwə-* 'to fall' (PChuk. **əzvə-, *š-^hzv^h-at-* 'to fall; to break loose; to fall off; to fall to the ground'; PKam. **'ičhə-* 'to fall') [Мудрак 2000: 175, Chuk.; KAMET 943]

| PAlt. **iāga* 'to fall over; to shake' [EDAL: 596; ALTET 633] < PEurAs. ***jayV* 'to fall,

fallover’.

M.17. PKCh. **’əju-* ‘to put; to shove’ (PChuk. **’zo-t-* ‘to put inside, shove; to get caught (into net)’; PKam. **’izwu-* ‘to put; to pile up’) [Мудрак 2000: 31; КАМЕТ 640; Fortescue 2005: 116] | PKart. **’z-* ‘to lie’ [Климов 1964: 233; KARTET 1239] / **’zew-* [EWK: 475] / **’zew-* / **’zw-* ‘to lie (of inanimate)’ [Klimov 1998: 279] < PEurAs. ***’zu ~ **’Vzu* ‘to put; to lie’.

M.18. PKCh. **[’əŋ]-fiəlu-* ‘to stand; to become; to come (of sth.)’ (PChuk. **’ənkəl-* ‘to become; to come (of sth.)’; PKam. **’fiizu-*, **’inhi’wzu-* ~ **’in’ihzi’w-* (*nʔ*) ‘to stand, stand up’) [Мудрак 2000: 100; КАМЕТ 46; Fortescue 2005: 191 (Chuk.); Мудрак 2008: 201 с.]

▲ With **’əŋ-* ~ **’ɲŋ-* inchoat. suff.

| PAlt. **’ilV* (~ *-l-*) ‘to stand; to become’ [EDAL: 583; ALTET 596] (contam. of two verbs) < PEurAs. ***’HilV* ‘stand’ [Krougly-Encke 2023: N^oA.79a].

NB. Cf. PKCh. **’iɬ-* ‘to be’, cf. N^oA.11.

M.19. PKCh. **’əpju-* ‘to pass by; to wander’ (PChuk. **’piju-* ~ **’əpju-* (~ *u*) ‘to wander on the water; wading’; PKam. **’pəs-ko(z)-*, **’pə’ws-pə’wz-* ‘to pass by; to surpass, outdistance’) [КАМЕТ 813]

| PAlt. **’p’iōp’[á]* ‘to walk; to go away’ [EDAL: 1147; ALTET 1795] | PEsk. **’piviŋ* ‘direction; time or place for sth.’ [CED: 258; ESQET 768; Мудрак 2011: 569] | PYuk. **’pu-l-* ‘to go out, to go out (from water)’ [Nikolaeva 2006: N^o1927; JUKAET 1001] | PDr. **’pō-* ‘to go’ [DED₂: N^o4572; DRAVET 1337] < PEurAs. ***’p’oxwi* ‘to go; to go away’ [Мудрак 2011: 569; Krougly-Encke 2023: N^oA.92b].

M.20. PKCh. **’əpkir-* ‘to come, to arrive’ (PChuk. **’əpkir-* ‘to come, to arrive’; PSkam. **’pikis-* ‘to go’) [Мудрак 2000: 108; КАМЕТ 112; Fortescue 2005: 220]

▲ Cf. PKCh. **’pəqu-* ‘to run on all fours; wild’, q.v.

M.21. PKCh. **’əre-* ‘to enter’ (PChuk. **’re-* ‘to enter (inside); to overcome (of illness)’; PKam. **’č’e-* ‘to enter’) [Мудрак 2000: 122 f.; КАМЕТ 485; Fortescue 2005: 250: Chuk.]

| PAlt. **’ire* ‘to come; to enter’ (PTurk. **’ēr-* ‘to reach; to pass’; PMong. **’ire-* ‘to come’; PTung. **’i-* ‘to enter’; PJAp. **’ita-r-* ‘to reach’; cf. also Kog. **’i-* ‘to enter’) [EDAL: 590; ALTET 686] < PEurAs. ***’ire* ‘to come; to enter’.

M.22. PKCh. **’ərkə’læ-* ‘to hurry; to leave (intr.), depart’ (PChuk. **’ɪrkɛs-ab-* (< *-i-*) ‘to hurry’; PKam. **’sixézi-* (~ *-é-*) (*c*) ‘to leave (intr.), depart, sett off’) [Мудрак 2000: 123; КАМЕТ 500; Fortescue 2005: 255; Мудрак 2008: 190 f.]

| PAlt. **’kure* ‘to run; quick’ (PTurk. **’Küre-* ‘to run away’; PMong. **’kur(u)-* ‘rapid, quick; moment, short time; to hurry’; PTung. **’kora-* ‘to drive away’; PKor. **’kirk-* ‘to run away, to

escape') [EDAL: 745; ALTET 930] | PSam. **kiirə-* 'run away, flee' [Janhunen 1977: 79 f.] | PIE. **kors-* 'to run, to hurry' [WP I: 428 f.; Pokorny: 583 f.; Adams 234; PIET 1541] | Geor. *kurçyl-* 'run away, race, gallop' < PEurAs. ***kurV* 'to run' [ND: N^o1144; NOSTRET 1394].

M.23. PKCh. **əty^we-* 'to take off, undress; to peel off' (PChuk. **ətbe-* 'to do the action, counter to the producing base (to undress); to unshoe'; PKam. **tuwa-l-* 'to take off, strip away, denude; to peel off') [Мудрак 2000: 35 (Chuk. + incorr. Kam.); КАМЕТ 1159; Fortescue 2005: 424 (Chuk. + incorr. Kam.)]

| PDr. **tiv-* 'to take out, remove' [DED₂: N^o3407; DRAVET 1548] | PIE. **dū-* (?) 'to dress; to take off' [WP I: 777 f.; Pokorny: 217 f.; PIET 1870] < PEurAs. ***tVwV* (~ *-y^w-*) 'to dress / to remove, undress'.

M.24. PKCh. **ətqə^λ* (~ *'u-*) 'to wade; to cross the bridge' (PChuk. **(β)ucqə-c "* ~ *-t, -š* 'bridge'; PKam. **tqiz-* 'to cross the river') [Мудрак 2000: 170 (Chuk.); КАМЕТ 1024; Fortescue 2005: 305]

▲ The initial of Chukchean item is under influence of PKCh. **u^h* 'tree; wood (material)' (> PChuk. **u^z, *u^H*).

Compound, the 1st part being cognate to

| PAlt. **oti* (~ *t'-*) (*-rV*) 'to move, change place' [EDAL: 1066 f.; ALTET 1587] | PDr. **ād-* 'to play; to dance, move' [DED₂: N^o347; DRAVET 91], cf. **ōd-* 'to run; to escape' [DED₂: N^o1041; DRAVET 1127] | PKart. **qad-* / **qed-* / **qd-* 'to move, go, arrive' [КЛИМОВ 1964: 263; EWK: 557; KARTET 832] / **ged-* / **qid-* / **qd-* 'to move, make movement; to bring; to go' [Klimov 1998: 335] > PEurAs. ***godwV* (~ *?-*) 'to move' [МССНЯ: 338; ND: N^o1856; NOSTRET 123].

The 2nd part matching with

| PAlt. **gēle* 'to come; to go' [EDAL: 538; ALTET 495] | PFUg. **kälä-* 'to wade' (+ Selk. *qäl-* 'to walk') [UEW: 133; URALET 261] / 'rise' [Sammallahti 1988: 545] | PYuk. **kil-* 'to wander (in water, in snow); wade (adv.)' [Nikolaeva 2006: N^o819; YUKAET 1495] | ?σ PIE. **kel-* 'road' [WP I: 446; Pokorny: 554; PIET 482] | PKart. **gwal-* 'to go (imper.)' [КЛИМОВ 1964: 60; EWK: 81 f.; KARTET 404; Klimov 1998: 28], cf. Megr. (*n*)*kill-* 'to roam' < PEurAs. ***kelHV* 'to walk, roam; to wade; ford' [МССНЯ: 332; ОСНЯ 1: N^o161; ND: N^oN^o616, 872; NOSTRET 34; NIODET 267].

M.25. PKCh. **əθfieli-* 'to enter; to visit' (PChuk. **əRyel-* 'to enter; to enter crawling; to bring in'; PKam. **itheli-* 'to guest; to walk, stroll') [Мудрак 2000: 2000 (Chuk.); КАМЕТ 1098; Fortescue 2005: 64 (Chuk. + incorr. Kam.)]

?φ | PKart. **č'-* 'to reach, arrive' [EWK: 516 f.; KARTET 215] / **č'(e)-*, **č'(i)-* 'to pull, stretch; to reach' [КЛИМОВ 1964: 248; Klimov 1998: 307] < ? PEurAs. ***č'V(HV)* 'to reach; to enter'.

M.26. PKCh. **koy^wra-* 'turn round; coil up' (PChuk. **kayra-* 'to turn around'; PKam. **kowoz-*

'to coil') [Мудрак 2000: 179; КАМЕТ 224]

| PAlt. **k'erV* (~ *-r-*) 'go round, walk round' [EDAL: 782; ALTET 1015] | PEsk. **karivø-* 'revolve, twirl' [CED: 150 f.; ESQET 7; Мудрак 2011: 350], cf. PIn. **klrø-* 'avoid; hesitate' [CED: 173; INUPET 133; Мудрак 2011: 986 с.] | PFug. **kerä* 'round; rolling; turn, rotate' [UEW: 147 f.; URALET 288] / **ki/erwä-* 'dodge' [Sammallahti 1988: 543] | PYuk. **qair-* (*-δ-*) 'bent; bend; crease, kink' [Nikolaeva 2006: N°1976; JUKAET 196] | PDr. **kūr-[VI-]* 'revolve, twist' [DED₂: N°2684; DRAVET 741] | PIE. **ker-* (**kerk-*, **kerg-*, **krenk-*, **krengh-*) 'circle; round object' [WP II: 568 ff.; PIET 613; Pokorny: 935 ff.], **kreiw-* 'left; curved' [Fraenkel: 203; PIET 3117] + OGr. *κροῖός* 'morbid; weak; mutilated; faulty' | PKZan. **kwer-* 'round; flapjack; ball shaped paste (scone)' [Климов 1964: 110; EWK: 198; KARTET 620; Klimov 1998: 92-93], **kwer-kwer-* 'round; round-shaped object' [Klimov 1998: 93], cf. Megr. *ḵvarkvalia* 'round', Laz *ḵorḵol-a* 'frizzle; sheep excrements' < PEusAs. ****k'werV* ~ ****k'erwV* 'go round; revolve; bent' [Krougly-Enke 2009: 194; NIODET 344; Мудрак 2011: 350, 987; Krougly-Enke 2023: N°A.92f].

M.27. PKCh. **nəpē-* 'to pull out; to pull off' (PChuk. **əzpe-* 'to pull out; to pull off'; PKam. **inpə-t-* 'to unburden') [Мудрак 2000: 175; КАМЕТ 934; Fortescue 2005: 122]

?σ | PFUg. **nowe-* 'to flay; to peel' [UEW: 325; URALET 649] / **nowi-* [Sammallahti 1988: 546] < PEurAs. ****HnVbV* 'pull off; peel' [Krougly-Enke 2023: N°A.17a].

< ? PBor. ****HnVbV* 'pull of; > die'.

M.28. PKCh. **pequ-* 'to run on all fours; wild' (PChuk. **paq-əcku-* 'to run (of animals, on all fours)'; PKam. **pe(w)qe-l'- (lʔ)* 'wild') [Мудрак 2000: 108; КАМЕТ 87],

| PAlt. **poki* (~ *-k'-*, *-e*) 'to run, run away' [EDAL: 1103; ALTET 1669] | PIE. **bheuge-*, **bhūgh[e]-* 'to run, escape' [WP II: 144, 146; Pokorny 1959: 152; PIET 2064], **bheg^w-* 'to run, escape' [WP II: 148 f.; Pokorny 1959: 116; PIET 2070] | PFenn. **poke-* / **pake-* 'to flee' [SKES: 470], deriv. in PUr. **pukta-* 'to jump; to run' [UEW: 402; URALET 821] / PUr. **pok-ta* 'to flee' [ОСНЯ 1: N°15] / PFUg. **puktā-* 'shoo' [Sammallahti 1988: 547] (+ Saam. *ok^lte-*) | PYuk. **peg^wə-* 'to run, to follow; to come in running (man); to follow sb. in one own will, as hoodooed' [sub Nikolaeva 2006: N°1839; JUKAET 285] | ?φ PNDr. **boŋ-* 'to run' [DED₂: N°4473; NDRET 137] < PEurAs. ****pogwV* ~ ****be[g]wV* 'to run, to run away' [МССНЯ: 330; ОСНЯ 1: N°15; ND: N°N°183, 1685; Мудрак 2011: 560].

M.29. PKCh. **pila-* 'to stay; to leave, abandon' (PChuk. **piŋa-* 'to stay; to leave, abandon'; PKam. **-pisa-*: **an-pisa-* 'to forbid; to reject') [Мудрак 2000: 112; КАМЕТ 750; Fortescue 2005: 214, 364]

| PAlt. **p'ēlo* 'to walk; to run' [EDAL: 1133 f.; ALTET 1741] | PEsk. **pula-* 'to come into midst of, penetrate; to visit' [CED: 268; ESQET 807; Мудрак 2011: 576] | PYuk. **palaya-j-* (~ *ɔ*) 'to disperse (of herd)' [JUKAET 1880], cf. **pel-* 'to catch up; to reach out to the object'

[Nikolaeva 2006: N^o1773; JUKAET 151] | PIE. **pel-*, **pelə-* / **plā-* 'to set in motion by pushing or hitting; to drive' [WP II: 57 f.; Pokorny: 801 f.], PIE. **pela-*, **pelas-* 'to move; to come near' [Frisk 2: 494 f.; PIET 3154] < PEurAs. ***p^hel(w/H)V* 'to walk' [NOSTRET 737; NIODET 788; Krougly-Encke 2023: N^oA.92a].

N. Adjectives, adverbs.

N.1. PChuk. **аҗыҗ* 'together; close (to); jointly' [CHUKET 2015]
| PAlt. **aje* (~ **ejo*) 'reach; come close' [EDAL: 279; ALTET 2671] | ? PEsk. **аҗи-в-* < **äҗи-?* 'come' [CED: 7; ESQET 556; Мудрак 2011: 74] (infl. by **аҗə-* < **äҗə-* 'go on walks' [CED: 7, 55; ESQET 594; Мудрак 2011: 71 f.]) < PEurAs. ***ʔajV* (~ *-e-*) 'join; reach'.

N.2. PKCh. **'akno-* 'many, much; very' (PChuk. **akno-* 'many, much'; PKam. **'akъno-* 'wealth; rich, wealthy') [KAMET 88]
| PAlt. **kāna* 'to be satisfied' [EDAL: 643 f.; ALTET 746] | PEsk. **kanav-* < **kānā?* (> PYup. **kanav-* < **kānāv-* *E*) 'to put into; to feel into; sack' [ESQET 585; Мудрак 2011: 340] < PEurAs. ***kanV* ≈ ***ʔaknV* 'to fill; many' [Мудрак 2011: 340].

N.3. PKCh. **'al'ьmь-* 'other; next' (PChuk. **(a)Lətm-* 'double; spare; again; to follow sb.; to marry a second wife'; PKam. **'elam*, **'ьmā-* 'then, afterwards; next') [Мудрак 2000: 185 (Chuk.); KAMET 767; Fortescue 2005: 164]
| PAlt. **āla* 'to cross (a mountain)' [EDAL: 292; ALTET 65] | PEsk. **aləv-a* < **al'ьv-a* 'other of pair; second; two' [CED: 17, 52; ESQET 1757; Мудрак 2011: 102 f.] | PUG. **āIV* (**āI(V)-mV*) 'other side' [URALET 1751] | PIE. **al-* 'other' [WP I: 84 ff.; Pokorny: 24 ff.; Adams: 28 f.; PIET 2793] < PEurAs. ***ʔalV* 'to cross; other side' [МССНЯ: 372; ОСНЯ 1: N^o137; ND: N^o58; NOSTRET 604].

N.4. PChuk. **al-ыҗ* 'very (a little, badly)' [CHUKET 1809]
| PAlt. **eli* 'sufficient' [EDAL: 500 f.; ALTET 2682] | PDr. **el-* 'all; both' [DED₂: N^o844; DRAVET 318] | PIE. **al-* 'all' [WP I: 90; PIET 1304] < PEurAs. ***ʔelV* 'all; sufficient' [NOSTRET 1008].

N.5. PChuk. **анҗь-* (*-ыҗ-*) 'incomplete' [CHUKET 1825]
| PAlt. **āni* 'not' neg. vb. [EDAL: 300 f.; ALTET 74] | PEsk. **na-* < **nā-* 'no', negation [CED: 204; ESQET 245; Мудрак 2011: 436], **-ənvі-*, **-nav-* < **ьnvе-*, **nav-* negat. aff.: 'to stop doing, not(imper.)' [CED 416 ff.; ESQET 649; Мудрак 2011: 254] | PUr. **ni* 'not', cf. PPerm. **en* prohib. part. (if not ←b Chuv.) | PYuk. **nə-* negation of pron. and advl words [JUKAET 1673] | PIE. **nē*, **ne*, **nej* neg. part. [WP II: 319 f.; Pokorny: 756 ff.; Friedrich: 149; Adams: 183; PIET 3074] | PKart. **nu-* 'not' (prohib.) [Климов 1964: 148 f.; EWK: 267; KARTET 747;

Klimov 1998: 144] < PEurAs. ****ʔanV ~ **nV** 'not', neg. part. [ND: N⁰N⁰48, 1524; NOSTRET 1197; NIODET 1506; Мудрак 2011: 254, 436].

N.6. PKCh. ***ʔhūm-** 'thick' (PChuk. ***bum-** 'thick; voluminous; wide, broad; to widen; solid, massive'; PKam. ***hʔm- (*om-)** 'thick') [Мудрак 2000: 170 (Chuk.); KAMET 1260; Fortescue 2005: 56]

▲ Cf. PChuk. ***bomrʔ-** 'strong, firm, durable' [Мудрак 2000: 169; CHUKET 985; Fortescue 2005: 270].

| PAlt. ***ambe** 'heavy; big' [EDAL: 295; ALTET 35] | Lat. *amplus*, *-ī* 'thick, voluminous' < PEurAs. ****yVm(P)V (~ x-)** 'big; thick'.

N.7. PChuk. ***ʔzʔa-** 'wet' [CHUKET 2150]

| PAlt. ***iak'i (~ -k-)** 'liquid; to flow' [EDAL: 598; ALTET 620] | PUr. ***joke** 'river' [UEW: 99; URALET 188] / ***juka** [Janhunen 1981: 15; Sammallahti 1988: 537] | PSDr. ***āk-** 'swamp; flat land' [DED₂: N⁰336; SDRET 304] | PIE. ***ak^w-** (PIH. ***a-**) 'water (flowing)' [WP I: 34 f.; Buck: 29, 35, 42; PIET 40] (+ ? Hitt. *akukal(la?)-* or *akutal(la?)-* 'Waschbecken' [Tischler 11 f.]) < PEurAs. ****jak'U (~ -q'-)** 'water (flowing)' [МССНЯ 334, 347; ОСНЯ 1: 275-276; ND: N⁰123; NOSTRET 61].

N.8. PKCh. ***ʔkʔu-** 'all; completely' (PChuk. ***ʔktʔ-**, ***kətti** 'very, wholly; impossible'; PKam. ***kilu-** 'very, completely') [Мудрак 2000: 164; KAMET 976; Мудрак 2008: 104]

| PAlt. ***k'óiba** 'couple; to couple, combine' (PTurk. ***Kol** 'pair, couple; one of a couple; to join, unite'; PMong. ***kolbu-** 'to couple; to bind together'; PTung. ***xulbü-** 'to bind; to arrange'; PKor. ***kǎrb-** 'twins; to compete, match, compare, line together; to form a couple'; PJap. ***kasa** 'size; layer; to heap up, pile up') [EDAL: 836; ALTET 1115] | PKZ. ***qowl-** 'all' [КЛИМОВ 1964: 213; EWK: 418; KARTET 882] < PEurAs. ****q'óiwV** 'all; to combine' [ND: N⁰N⁰879, 1950; NOSTRET 1348].

NB 1. Cf. PAlt. ***kala** 'family; gathering' (PTung. ***kal-** 'clan, family; to gather (deer); together'; PJap. ***kara** 'clan; family') [EDAL: 634 f.; ALTET 2792] | PDr. ***kal-(aj-)** 'to be mixed' [DED₂: N⁰1299; DRAVET 721] < PEurAs. ****KalV** 'to mix; to join' [ND: N⁰873; NOSTRET 1347].

NB 2. Cf. also PAlt. ***kála (~ k'-, -e-)** 'heap; to pile up' (PTurk. ***Kāla-** 'to heap up, pile up'; PMong. ***kali-** 'to overflow'; PKor. ***kari-** 'heap, stack; to pile up') [EDAL: 635; ALTET 708] | PIE. ***klā-** 'to put; to lay out' [WP I: 489; Pokorny: 599; PIET 1168] < PEurAs. ****k'alHV (~ q'-)** 'to put' [NOSTRET 1585].

N.9. PKCh. ***ʔktʔ-** 'firm; hard' (PChuk. ***ʔktʔ-** 'hard; firm'; PKam. ***kitʔ-** 'firm; hard') [Мудрак 2000: 36; KAMET 601; Fortescue 2005: 152; Мудрак 2008: 112]

▲ Also PKCh. ***ʔktʔ-jyʔ-** 'wind' (litt. "strong wind") (PChuk. ***ʔktʔ-zyʔ-n** 'wind; be

windy'; PKam. **kitiy* 'wind') [KAMET 977] with the 2nd part PKCh. **yejyø* 'wind', q.v.

| PAlt. **k'et'o* 'hard' [EDAL: 785 f.; ALTET 1020] | PEsk. **qøtu-rtø-* < **qyto-rtø-* car. 'soft (neg.)' [CED: 300; ESQET 937; Мудрак 2011: 653] | PYuk. **k^weti-* *O* 'thick' [HDY: N°909; JUKAET 62] (b→ PKam. **kot-* 'wide, broad' [ITELET 1069], cf. [NIODET 1661]) | PDr. **gat-*, **kat-* 'strong; hard; lump; spleen' [DED₂: N°1148; DRAVET 373] < PEurAs. ***k'et'we* (~ *-dw-*) 'hard' [ND: N°966; NOSTRET 1366; NIODET 1213; Мудрак 2011: 653].

N.10. PKCh. **'imnъ-* 'all' (PChuk. **'im-ъŋ* 'all (sg. pl.) (also in compl.); become whole; longly, constantly; also; together'; PKam. **mini-l*, **minlə* 'all (sg., pl.)') [KAMET 627]

| PIE. **eum-* (PIH. **H-*) 'many; all' [Tischler: 284 f.; PIET 2927] < PEurAs. ***?UmV* (*-nV*) 'many; all'.

N.11. PKCh. **'bpha(j)-* 'pale; grey (hair)' (PChuk. **'bpa(з)-* 'pale face; pale; to blemish, blanch'; PSKam. **pax-pa-* 'grey (hair)') [KAMET 1088]

| PTung. **biaga* 'moon' (< PAlt. **biaga* (~ *-i*) [ALTET 78] | PAI. **aka-ðav*, **aka-ðvi-* 'sun; sunlight; to shine (of the sun); to be exposed to the sun' [AD: 36] | PFUg. **pājV* 'white; to gleam' [UEW: 360; URALET 727] | PYuk. **poi-* *B* 'white; to be whitish, white, faded; to fade, decolour, lighten; to light, illuminate' [Nikolaeva 2006: N°1837; JUKAET 1231] | PDr. **vai-* 'dawn' [DED₂: N°5554; DRAVET 1701] | PIE. **bhā-* 'to shine' [WP II: 122 f.; Pokorny: 104 f.; PIET 2050] < PEurAs. ***bayi* 'to shine; light' [ND: N°179; NOSTRET 286; NIODET 570].

N.12. PChuk. **'břšъŋ-* 'grey, yellowish grey: to whiten slightly, to dawn; yellowish on brown background' [CHUKET 1938]

▲ b→ PEsk. **əpri-в* < **'bprē-в* 'rufuous, yellow' [ESQET 728; Мудрак 2011: 262 f.]

| PAlt. **borV* 'grey' [EDAL: 376; ALTET 191] | PYuk. **puree-* (~ *-δ-*) 'black paint' [JUKAET 234] | PIE. **bhrūn-* 'grey, brown etc.' [WP II: 166 f.; PIET 2093] < PEurAs. ***bŪrV* 'grey, brown' [Долгопольский 1964: 12; МСЧЯ: 332; ОЧЯ 1: N°18; ND: N°255; NOSTRET 38; ESQET 728; diff. in Krougly-Enke 2009: N°1.2a].

N.13. PKCh. **čāmā* 'together; also' (PChuk. **cama* 'and, also; barely; finally; really'; PKam. **-čom* 'together', comitat.) [Мудрак 2000: 157 (Chuk.); KAMET 1295; Fortescue 2005: 43 (Chuk.)]

b→ PYup. **cama* < **cama* ~ **cāmā A ~ E* 'and, also' [CED: 66], [YUPET 1466], [ЭЭ: 853]

| PAlt. **č'ome* (**č'omye?*) 'together; all' [EDAL: 451; ALTET 331] | PYuk. **-cöön* ~ **-coon* 'together' [JUKAET 1804] < PEurAs. ***c'omV* (~ *č'-, č'-, č'-*) 'all; together' [NIODET 1241; Мудрак 2011: 853].

N.14. PKCh. **čānuŋ²a-* 'dark; dirty' (PChuk. **ceŋve-* (~ *a, a*) 'dirty'; PKam. **čūni-*, **čī^wni'-aq* 'dirty; shadow') [Мудрак 2000: 135; KAMET 174]; Мудрак 2008: 44 c.]

| PAlt. **sanV(-kV)* 'bird dung' [EDAL: 1209 f.; ALTET 1911] | PEsk. **cyna-β-* < **coŋa-β-* 'bead; blue; green' [CED: 93; ESQET 601; Мудрак 2011: 214] | PYuk. **cij-i-cə-* *O* 'night; darkness; (it is) dark, gloomy' [Nikolaeva 2006: N°284; JUKAET 169] < PEurAs. ***canV (~ s-, č-, s-, š-)* 'dirt' [NIODET 1359; Мудрак 2011: 177, 214].

N.15. PChuk. **cik (~ i)* 'very; mostly' [CHUKET 1649] (if not ←b Niv.)
| PAlt. **č'ako* 'many; be full; be enough' [EDAL: 410 f.; ALTET 265] | PAI. **cβα-* 'be full, complete' [AD: 134] | PFUg. **čukkv (*čokkv)* 'thick' [UEW: 62 f.; URALET 119] | PYuk. **cokoo-* 'completely, wholly' [Nikolaeva 2006: N°307; JUKAET 1610] < PEurAs. ***č'ak(')(w)V, -i- (~ -q(')-)* 'thick; many; be full' [MCCHЯ: 331; ND: N°385; NOSTRET 26; NIODET 228; Krougly-Encke 2023: N°A.1c].

N.16. PKCh. **'əklu-* 'little, small' (PChuk. **əklə-* 'small, fine'; PKam. **'βkl-ān* 'fine, small') [KAMET 947], cf. PKCh. **kul-lulā-* 'bead' (lit. "small eye") (PChuk. **kəl-ləla* (< **əkl-əfta*) 'bead, beads'; PKam. **k'βlil'β-w-n' (n?)* 'bead') [KAMET 238]
| ?σ PIE. **k(')el-* 'youth; son' [WP I: 442 f., diff. in Pokorny; Adams: 155; PIET 1553] | PDr. **kil-* 'small' [DED₂: N°1571; DRAVET 592] < PEurAs. ***k'IV (~ q'(-)* 'small'.

N.17. PKCh. **'əkrul'mə* 'round' (PChuk. **əkrulmə-* (~ *-yr-, u*) 'circle; to go around; whale feast (with going around the village)'; PKam. **k'iruli-m, *k'iruly'β-* 'martagon lily, Turk's cap lily *Lilium martagon L.*') [KAMET 1072]
| PAlt. **kiuru (-kV)* 'a k. of vehicle' (PTurk. **K'irak, *K'iragu* 'sledge'; PMong. **kür-dün* 'wheel'; PTung. **kur-* 'humming-top; screw; spool'; PJap. **kūrumā* 'vehicle, carriage') [EDAL: 708; ALTET 853] | PEsk. **akra-γ- ~ *aqra-β-* < **äkrä-γ- ~ *aqra-β-* 'wheel; to roll; round' [CED: 10; ESQET 664; Мудрак 2011: 96 f.] < PEurAs. ***kVru* 'round' [Мудрак 2011: 97].

N.18. PKCh. **('ə)λγ'wānə-* 'self; separately' (PChuk. **əcyanca-ŋ (~ a, e)* 'separately; yet'; PKam. **x'winea, *x'win'āti-l, *lx'w-* 'self; equal' refl. pron.) [KAMET 1057], PChuk. **-βlvβna* 'self; he' [CHUKET 691]
?σ | PIE. **lew-* 'to leave' [WP II: 405; Pokorny: 682 f.; PIET 2335] < ? PEurAs. ***lew(H)V* 'to leave, to separate'.

N.19. PKCh. **'əmqə-* 'little; boy' (PChuk. **əmqə-* 'little; baby'; PKam. **'βmqβ-, *-βmqβ-č (~ *-βmqβ-č')* 'boy') [Мудрак 2000: 33; KAMET 630; CCDK: 184, Chuk.; Мудрак 2008: 29]
| PEsk. **mikə-* 'small' [CED: 200; ESQET 229] | PIE. **smeik-, -g-* 'thin, narrow, little; twig, pole; crumb' [WP II: 685 f.; Pokorny: 966 f.; PIET 1092] < PEurAs. ***mikV (~ -k', -q')* 'small, little' [Greenberg 2002: N°347].

▲ Cf. **mēgh-* 'small; small finger' [Fraenkel: 422; PIET 2274].

N.20. PKCh. **('ə)psil-(a)śś-* '(nrś-) 'flat; sleek, smooth; even' (PChuk. **psilśś-* 'flat'; PKam. **ipsil-(a)śś-* 'smooth, even; flat') [Мудрак 2000: 111; КАМЕТ 95; Fortescue 2005: 222] | PAlt. **p'āla* 'field; level ground' [EDAL: 1120; ALTET 1723] | PFUg. **pāIV* 'board' [UEW: 364; URALET 735] | PDr. **pal-* 'plain; valley' [DED₂: N^o4016; DRAVET 1168] | PIE. **pAl[a]-*, **plā-* (PIH. **pAlH[a]-*) 'broad and flat; plain' [WP II: 99 f.; Pokorny: 833 f.; PIET 944], also [WP II: 90 f., 99 f.; Pokorny: 833 f.] | PKZan. **prtqel-* 'flat' [EWK: 62 f.; KARTET 814] / **brtq-el-* [Klimov 1998: 19] < PEurAs. ***p'alHV* 'flat; level' [Иллич-Свитыч 1968: N^o10.20; МСНЯ: 372; ND: N^oN^o1689, 1708, 1719; NOSTRET 239; NIODET 779; Krougly-Encke 2023: N^oA.107a].

N.21. PKCh. **'əqə-ka-* (~ *-k-*) 'burning, hot' (PChuk. **əqəke-* (~ *-qk-*, *a*) 'hot; sunburn; to burn up (of sun)'; PKam. **xika-* ~ **xike-* 'hot, burning') [Мудрак 2000: 31; КАМЕТ 618; Fortescue 2005: 339]

| PEsk. **əknə-* < **əknə-* 'fire' [CED: 101; ESQET 581; Мудрак 2011: 233]; PAI. **ik-la-* (~ *-y-*) 'wood, firewood, (pl.) pieces of firewood' [AD: 189] | PFUg. **äjV(-)* 'fire; to burn' [UEW: 26; URALET 45] / **əjkV-* 'гореть / to burn (intr.)' [ОСНЯ 1: N^o106] | PYuk. **jäg-* 'fire' [Nikolaeva 2006: N^o678; JUKAET 1324] | PDr. **ēj-* 'to long for, desire, grieve' [DED₂: N^o878; DRAVET 359] | PIE. **ng-n-i-* 'fire' [WP I: 323; Pokorny: 293; PIET 1256], **Ang-[ejl]-* 'charcoal, embers' [WP I: 181; Pokorny: 779; PIET 833] < PEurAs. ***?e(j)kV* (~ *-q-*) (*-nV*) 'fire; to burn' [МСНЯ: 352; ОСНЯ 1: N^o106; Fortescue 1998: 145, 159; ND: N^o814; NOSTRET 302; Krougly-Encke 2023: N^oA.28a].

NB. Cf. PKCh. **jun-* 'fire; spark' [Мудрак 2000: 62; КАМЕТ 425; Fortescue 2005: 121].

N.22. PKCh. **'əqrē-t* 'yellow, (red)' (PChuk. **əqrē-* (~ *a*) 'yellow; in yellow fat; to fade'; PKam. **kirēt*, **kire-si-* 'dye, colorant; yellow; bullfinch, snow-bunting') [КАМЕТ 1085]

| PAlt. **k(')iru* 'grey' (PTurk. **Kır* 'grey'; PMong. **kiraya* 'dusk before dawn') [Владимирцов: 338; sub EDAL: 828 f. and ALTET 1090] | PEsk. **qirəb*, **qirəbəb* 'grey hair' [ESQET 720], ? PEsk. **qəjruy* < **q'jruy* 'blue, green, dark (sky)' [CED: 310; ESQET 598; Мудрак 2011: 638 f.] (if not < PEurAs. ***k'arV* (~ *q'-*) 'black', cf. [Мудрак 2011: 638]) | PDr. **kār-* 'herbs, greens' [DED₂: N^o1616; DRAVET 609] < PEurAs. ***kVjrV* (~ *k'-*, *q'-*) 'light colour'.

N.23. PChuk. **iyu-* 'to gather, crowd' [Мудрак 2000: 170 f.; CHUKET 433; Fortescue 2005: 94 f.]

| PAlt. **ēgo* 'big; many' [EDAL: 495 f.; ALTET 457] | PEsk. **uyla-* 'numerous; many' [CED: 361; ESQET 630, Мудрак 2011: 773]; PAI. **uylav-* 'another than; in another place than; besides, in addition to; except for' [AD: 419 f.] < PEurAs. ***?e(j)gU* (~ *-y-*) 'many' [Мудрак 2008: N^o195; ESQET 630; NIODET 1325; Мудрак 2011: 773; Krougly-Encke 2023: N^oA.1a].

N.24. PKCh. **'iy^wl̥-* 'long' (PChuk. **'iyL̥-* 'long; tall'; PKam. **'iy^wul-* 'long') [Мудрак 2000: 53; KAMET 669; Fortescue 2005: 106; Мудрак 2008: 62]

| PAlt. **kiolo* (~ *k-*, *-l-*, *-iu-*) 'long; far' [EDAL: 695 f.; ALTET 829] | PFV. **kiljä* (**küljä*) 'wide, broad' [UEW: 663; URALET 1326] | PDr. **kōl-* 'largeness; big' [DED₂: N^o2239; DRAVET 1914] | PIE. **k^wel-* 'far (in space and time)' [WP 1: 517; Pokorny: 640; PIET 1880] | PKZan. **kwal-* 'trace; afterwards' [EWK: 193; KARTET 611] < PEurAs. ***k^wlIV* (~ *-l-*) 'long; far' [NOSTRET 690; NIODET 333; Krougly-Encke 2023: N^oA.49].

N.25. PKCh. **'iθyo* 'white; light' (PChuk. **išy^z* ", **išy-at* 'light (n., adj.)'; PKam. **'a^wh^wx^b-* 'white') [Мудрак 2000: 57; KAMET 645; Мудрак 2008: 25]

?φ | PMong. **ažaj* 'silvery' | PFUg. **ačka* 'white' [UEW: 3 f.; URALET 2] | Hitt. *asara-*, *esara-* 'white; bright' | PKK. **ōž-* 'bright; beautiful' [DED₂: N^o1037; KUIET 805] < PEurAs. ***pVžV* (*-KV*) 'white; bright' [ND: N^o160a; NOSTRET 1819; NOSTRET 1819; Krougly-Encke 2023: N^oA.82].

N.26. PKCh. **'jbr̥-* 'red; iron-made (copper?)' [Мудрак 2000: 62; KAMET 434; Fortescue 2005: 123; Мудрак 2008: 34]

| PAlt. **ura* (~ *o-*) 'piebald; brown' [EDAL: 1503; ALTET 2530] | PEsk. **aruy* 'blood' [CED: 5; ESQET 539; Мудрак 2011: 151 c.] | PFUg. **wire* 'blood' [UEW: 576; URALET 1167] / **weri* [Sammallahti 1988: 551; URAET 8] | PYuk. **werwə* (~ *-d-*, *-rv-*) 'strong; strength, force' [Nikolaeva 2006: N^o2609; JUKAET 103] | PSDr. **er-* 'blood; dark-red' [DED₂: N^o817; SDRET 726], cf. PDr. **er-* 'red' [DED₂: N^o865; DRAVET 339] < PEurAs. ***^(H)werV* 'blood; red' [MCCHЯ: 345; NOSTRET 818; ESQET 539; Мудрак 2008: N^o27; GLOBET 664; sub NIODET 913; Мудрак 2011: 151; Krougly-Encke 2023: N^oA.9a].

N.27. PKCh. **lyun* 'high; upper' [Мудрак 2000: 140; KAMET 150; Fortescue 2005: 148

(Chuk. + borrh. Kam.), **'lkin* 'top' [KAMET 893; Fortescue 2005: 152 (Chuk. + borrh. Kam.)]

| PAlt. **ilek'a* (~ **elik'a*, *-k-*) 'front, before; East' [EDAL: 582 f.; ALTET 593] | Al. (Atk.) *uli-*: *uli-m ača* 'chin' (litt. "the lower part or underside of *uli-*) [AD: 435] | PUr. **wilā* (**wülā*) 'surface; on top' [UEW: 573 f.; URALET 1164] / **üli* 'over, on' [Janhunen 1977: 105; Sammallahti 1988: 536] < PEurAs. ***H/wVIV* (*-k(°)V*) 'front; top' [URALET 1164; Krougly-Encke 2023: N^oA.14a].

N.28. PKCh. **mejj^(w)ə-* 'big; many' [Мудрак 2000: 91; KAMET 7; Fortescue 2005: 171]

▲ Metathathesis < **meη^(w)yə-*.

| PAlt. **manga* (~ *-o*) 'big; strong' [EDAL: 903; ALTET 1256] | PYup. **mavqa-nəb* 'firm anchorage; stout, tough; stiffen (from cold)' [YUPET 1074; Мудрак 2011: 895] (PYup. **-bq-* can be < **-ηq-*) | ? PYuk. **menguḍi-* 'hard' [Nikolaeva 2006: N^o1207; JUKAET 1567] (←b Niv.?) | PIE. **mAnAgh-* / **menegh-* 'many' [WP II: 268 f.; Pokorny: 730], [PIET 754] | PKZan.

ma(n)g-* 'strong, sturdy' [KARTET 667; ОЧНЯ 2: N°280] < PEurAs. *man(V)gV* (~ -г-) 'big; many' [МССНЯ: 348; ОЧНЯ 2: N°280; ND: N°1443; NOSTRET 25; NIODET 978; Мудрак 2011: 895; Krougly-Encke 2023: N°A.5b].

N.29. PKCh. **mel-* 'good; kind, nice' (PChuk. **met-* 'good; of good quality'; PKam. **mel-* 'good') [Мудрак 2000: 91; КАМЕТ 8; Fortescue 2005: 171 f.; Мудрак 2008: 132 f.] | PAlt. **miolo* 'full; fill; thick' [EDAL: 927; ALTET 1312], cf. **milt'e* (~ -i) 'full; fill' [EDAL: 917; ALTET 1294] | PEsk. **mof-* 'plug (vb.); plug, stopper; close up, cover' [CED: 197 f.; ESQET 214; Мудрак 2011: 423 c.] | PFUg. **mElV* 'pass; fit' [URALET 1835] | PYuk. **moli-* 'oh joy, what a joy; how good; yes; let it; alright' [JUKAET 1629] | PDr. **mal-* 'abund; fertile; rich' [DED₂: N°4729; DRAVET 771], cf. PSDr. **māl-* 'strong; great; famous' [DED₂: N°4872; SDRET 4072] | PIE. **mal-* / *-e-* 'strong; big; many' [WP II: 292; Pokorny: 720; PIET 770] < PEurAs. ***mil(H)V* (/ *-a-*) 'plenty; abundant' [МССНЯ: 331; ОЧНЯ 2: N°278; ND: N°1410; NOSTRET 23; NIODET 764; Krougly-Encke 2023: N°A.52].

N.30. PKCh. **g^wite-* 'all; many' (PChuk. **gite-q* (~ *a*) 'many, much'; PKam. **mite-l* 'all') [Мудрак 2000: 190 (Chuk.); КАМЕТ 1177; Мудрак 2008: 136] | PUr. **wencV* ~ **wecV* 'all; whole' [UEW: 568; URALET 1154] | PIE. **wisw-* 'any; every; all' [WP I: 312 f.; Pokorny: 1175 f.; PIET 1268] | PDr. **viS-* 'all; big, great' [DED₂: N°5404; DRAVET 1814] | PKart. **wes-* / **ws-* 'be filled' [Климов 1964: 86; EWK: 133 f.; KARTET 1152] < PEurAs. ***[g^w]Vs(w)V* (~ *-cw-*) 'full; all' [ND: N°2454a; NOSTRET 842; Krougly-Encke 2023: N°A.32a].

N.31. PKCh. **'om-* 'warm' (PChuk. **om* " 'warmth; warm'; PKam. **'om-e-* " 'warm') [Мудрак 2000: 106; КАМЕТ 672; Fortescue 2005: 205; Мудрак 2008: 150] | PAlt. **umV* 'fire; burn' [EDAL: 1500; ALTET 2524] | PFP. **umrV* 'flame' [UEW: 804; URALET 1686], cf. PFS. **amre* / **awmV-rV* 'sun; heat; soft; warm; flame; soft breeze' [URAET 77] < PEurAs. ***HUmV* ~ ***HawmV* 'flame' [NOSTRET 1764; Krougly-Encke 2023: N°A.28b].

N.32. PKCh. **tyəl-* 'hot; to burn (tr.)' (PChuk. **tyəl-*, **ətyəl-* 'hot'; PKam. **txa(l)-*: **'in-txal-k-* 'to put fire, ignite') [Мудрак 2000: 140; КАМЕТ 152; Fortescue 2005: 293] | PAlt. **t'oge* (~ -i) 'fire' [EDAL: 1450 f.; ALTET 2417] | PUg. **tüyV-tV* ~ **tüwV-tV* 'fire' [URALET 1885] / **tü[y]V(tV)* [Halasz 1893: 226] | PDr. **tjī-* 'to burn' [DED₂: N°3266; DRAVET 1555] | PIE. **dāwe-* 'to burn; to roast' [WP I: 767 f.; Pokorny: 179 ff.; PIET 1863] | Geor. *day-* 'brand; to roast', PKZan. **duy-* 'to boil; to cook' [EWK: 114; KARTET 351] < PEurAs. ***dwoy(w)V* 'fire; to burn' [Долгопольский 1964: 14; МССНЯ: 337; ND: N°N°2250, 2341; NOSTRET 107; Greenberg 2002: N°54; NIODET 629; Krougly-Encke 2023: N°A.12b].

O. Numerals.

O.1. PChuk. **am-ŋɔro-* 'eight' [CHUKET 1837]

The 1st part: PIE. **a(m)-bhō, *a(m)-bhē* (with **bhō, *bhē*) 'both' [WP I: 54 f.; Pokorny: 34 f.; Adams: 14; PIET 2794], **am-bhi* prep., adv. 'by, around' [WP I: 54 f.; PIET 3040] < PEurAs. ***ʔamV* 'around; both'.

and the 2nd being PChuk. **ɔgra-q* 'four' [CHUKET 935].

O.2. PKCh. **ɔnra-q* 'four' (PChuk. **ɔgra-q* 'four'; PKam. **č'a-q* 'four') [Мудрак 2000: 103; KAMET 72; Fortescue 2005: 202]

▲ Etymologically = PKCh. **niθe-, *jiθe- (-jθ-?)* 'two', q.v., and reshaped after **ɔnro-q* 'three'.

O.3. PKCh. **ɔnro-q* 'three' (PChuk. **ɔgro-q* 'three'; PKam. **č'o-q* 'three') [Мудрак 2000: 103; KAMET 73; Fortescue 2005: 202-203]

| PAlt. **ŋ[iu]* 'three; thirty' [EDAL: 1032 f.; ALTET 1553] | PDr. **mū-* 'three' [DED₂: N^o5052; DRAVET 953] < PEurAs. ***ŋu(-H)* 'three' [NOSTRET 1094].

O.4. PKCh. **niθe-, *jiθe- (-jθ-?)* 'two' (PChuk. **ŋis(š)e-q* 'two'; PKam. **nt'i-, *et'ɔ^w- ~ *'itu-* 'second') [Мудрак 2000: 104; KAMET 71; Fortescue 2005: 197]

| PAlt. **niolV* 'four' (Tung., Kor.) [Blažek 1999: 92, 130] | PFUg. **neljä (*neljä)* 'four' [UEW: 316; URALET 627] / **neljä* [Sammallahti 1988: 546], PUg. **nalV* 'eight' [URALET 1838] | ?φ PYuk. **nor-, *na-* 'four' [Nikolaeva 2006: N^o1425, sub N^o1519; JUKAET 635] | PDr. **nāl-* 'four' [DED₂: N^o3655; DRAVET 996] < PEurAs. ***nV-l(j)V, -rV, -CV* 'two; four' [ND: N^o1598; NOSTRET 1120; Nikolaev 2015a: 57; Krougly-Encke 2023: N^oA.91b].

O.5. PKCh. **ənjən (~ *əne'nə)* 'one' (PChuk. **(ɛ)ənnen* 'one; same, equal; constant; alone'; PKam. **niz-ɔq* 'one') [Мудрак 2000: 49 f.; KAMET 535; Fortescue 2005: 145; Мудрак 2008: 142]

| PIE. **oi-no-, -ko-, -wo-* num. 'one' [WP I: 95 ff.; Pokorny: 281 ff.; Fraenkel: 1239 f.; PIET 3250] < PEurAs. ***ʔVn(j/H)V* 'one'.