Loanwords from unattested Nordic source forms in Saami

Among the numerous loanwords Saami has adopted from Proto-Norse there are also cases where the loan original has not been retained in modern or historically attested Nordic languages. Such etymologies can nevertheless be established on the basis of surviving cognate forms in other Germanic languages. Seven previously proposed etymologies of this kind are scrutinized, including those for North Saami duodji ‘handicraft’ and ráidalas ‘ladder’. Twelve new etymologies of the same type are argued for, among them explanations for the origin of North Saami ámadadju ‘face’, iktit ‘reveal, disclose’, and ivdni ‘color’.

1. Previously known cases
2. New etymologies

As is well-known, the Saami languages possess a large number of old loanwords from Proto-Norse, the ancestral form of the Nordic (North Germanic) languages. While Proto-Norse is not strictly speaking a solely reconstructed language, being rudimentarily attested in Elder Futhark inscriptions, most of what is known about the language is nevertheless based on reconstruction through the comparative method. As the period of extensive attestation of Norse began only several centuries after the Proto-Norse period, it is quite obvious that Proto-Norse differed considerably from even the earliest attested forms of Old Norse. This is most evident in the realm of phonology, but it must also be true in regard to the language’s lexicon.

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A productive avenue of loanword research is opened by the assumption
that Proto-Norse had preserved lexical archaisms of Proto-Germanic an-
cestry, which later became lost in the Nordic languages prior to their attes-
tation. Thus, it is conceivable that Saami has adopted some Nordic words
which are not found in the attested Nordic languages at all, but which have
been preserved in their more southern Germanic sister languages. Indeed,
in earlier research a couple of such borrowings have been proposed. In this
brief paper I will present some additional remarks on seven etymologies of
this type that have been put forward by earlier research, as well as present
twelve new etymological comparisons of the same type.

1. Previously known cases

1.1. SaaU duöjjie, SaaP SaaL duodje ‘handicraft’; SaaS duodji ‘handi-
craft; finished product’; SaaI tyeji ‘handicraft; product; deed’, SaaSk tuâjj,
SaaK tūjj, SaaT tijje ‘(manual) work; handicraft’ (< PNo *tōja-)

Qvigstad (1893: 139) explains this word as a loan from an unattested ONo *tói,
the assumed cognate of Goth taui (**GEN tojis) ‘deed, act’. The etymology is
indeed obvious, but there is no reason to postulate a specifically Old Norse
source form; the Saami word is more likely to stem from an even older (Pro-
to-)Norse form *tōja-. An early date of borrowing is suggested by attestation
in the easternmost Kola Saami languages, and especially by the fact that no
cognates of Goth taui are attested either in Norse or in West Germanic. As
the word is a basic vocabulary item, it was thus probably lost already prior to
extensive attestation of Norse and West Germanic as literary languages. It is
certain, at any rate, that the Gothic taui is a lexical archaism: it reflects Pre-
PGerm *dōw-jo- and shows a regular loss of *w after *ō in Proto-Germanic;
*tō- < *dōw- represents the full grade of a root that is also found in PGerm
*tauja- > Goth taujan ‘do, make’; the latter form shows a different grade with a
short vowel, which allowed the glide to be preserved (Kroonen 2013: 511, 520).

It can be noted that there is another derivative in Norse that contains
the full-grade root *tō-, namely ONo Icel Far tól ‘tool’ (< PGerm *tōla, co-
it developed regularly from earlier *tōlla- < *tō-dla-, formed with the de-
verbal instrument noun suffix *-dla- (< *-d³lo-). It has not been previously
noticed that also *tōla- was borrowed into Saami: it must be the source of
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SaaSk *tuell, SaaK *tull, SaaT *tillé ‘plane (the tool)’ (< PSaa *tuolè). The etymology presupposes a semantic narrowing from ‘tool’ to a particular basic tool (‘plane’), but such an unremarkable shift of meaning hardly poses a problem. Moreover, this explanation is in any case more straightforward than the previously suggested comparison to SaaL duollat ‘steady (of a boat); straight (of ski, tree, etc.)’, SaaN duollat ‘steady (of a boat or sledge)’ (Itkonen 1958: 616). The Norse origin of the word is also corroborated by the fact that also several other Saami words for basic tools are Norse loans, e.g. SaaN ákšu ‘ax’, niibi ‘knife’, fiilu ‘file’, liššá ‘scythe’, nábár ‘auger’ (cf. ONo øx ‘ax’, knífr ‘knife’, OSw fäël, ONo (hapax) fél ‘file’, lé ‘scythe’, nafarr ‘auger’).

1.2. SaaU fiärruot, SaaP SaaL fierrot, SaaN fierrut ‘stir (continuously or repeatedly)’ (< PSaa *fierō-), SaaN firˈret ‘stir (momentarily)’, SaaI vierriđ, SaaK vir.šed ‘stir’ (< PSaa *fierēše- ~ *vierēše-)
   < PNo *þvera-

Qvigstad (1893: 150) postulates an unattested ONo noun *þvera corresponding to modern Icelandic þvara ‘stick for stirring food in a cauldron’. In this form the etymology is obviously erroneous, as also in Old Norse the form of this noun was þvara, not *þvera. Instead, the source form must have been an etymologically related verb with a different ablaut grade: PNo *þvera- ‘stir’. It is not certain whether this verb has survived in Norse, but at least corresponding forms are found in West Germanic: OHGerm dweran, OEngl þweran ‘stir’. Adam Hyllested points out in the Academia.edu discussion session that Danish tvære ‘stir’ could in principle continue the verb *þvera-, although this is uncertain as it could also be a denominal verb derived from the noun þvara. At any rate, a deverbal noun derived from this verb is preserved in Norse: ONo Icel þyrill ‘beater, whisk’ (~ OEngl þwirel, OHGerm thwiril) < *þwerila-z (Kroonen 2013: 555).

1.3. SaaN fiidnu ‘stack of firewood’ (< PSaa *fijnō), SaaL svijnno ‘stack of firewood’ (< PSaa *svijnō)
   < PNo *fínō-

SKES (s.v. pino) explains the Saami word as a loan from PNo *fínō-. Corresponding forms are found in West Germanic: OEngl fin ‘heap, pile’, wudu-fin ‘stack of firewood’, OHGerm witu-fina ‘stack of firewood’ (wudu, witu ‘wood’). As regards SaaN fiidnu, the etymology is both phonologically
and semantically impeccable. SaaL svijnmo does feature an unexpected initial cluster sv- instead of f-, but even this feature has a well-established parallel in SaaL sváles ‘whale’ < PSaa *sválēs, which is in turn from PNo *hwałaz (> ONo hválr ‘whale’); cf. the expected initial f- in SaaS faala, SaaN fális ‘whale’ (< PSaa *fálēs). A word further worth noting in connection with this etymology is Fi pino ‘stack’, a separate borrowing from Germanic *finō- (LÄGLOS II s.v. pino); the Finnish word has also been further borrowed into Saami, cf. Saal pino ‘stack’.

1.4. SaaS gealoe ‘throat (of a reindeer)’ (< PSaa *kielō)
   < PNo *kelōn-

Koivulehto (1992: 91–92) has explained the word as a loan from PNo *kelōn-, corresponding to attested forms in West Germanic: OHGerm kela (> Germ Kehle), Du keel, OEngl ceole ‘throat’. To this completely straightforward etymology one only needs to add that the word might not be completely unattested in Nordic after all: Kroonen (2013: 184) notes that the Eldalian bird name grā̊-tjyölũ ‘Eurasian siskin’ could be etymologically interpreted as “firtree-throat”, suggesting the existence of an unattested ONo noun *kjala : obl *kjölũ ‘throat’. And in any case the Nordic languages retained a derivative based on *kelōn-, namely the noun *kelkan- > ONo kjalki ‘jaw; sledge’, Far kjálki ‘cheekbone’ (~ OHGerm kelah ‘goiter’; Kroonen 2013: 184).

1.5. SaaS raajreles ~ raajteres, SaaU rájddaris, SaaP rájdaris, SaaL ájdaris, SaaN ráidalas ~ ráidaras, SaaI raidlâs ~ raidâlás ‘ladder’ (< PSaa *rājδēles ~ *rājte̩res ~ *rājters).  
   < PNo *hlaidraz

These Saami words for ‘ladder’ show extensive phonological variation. The earliest form would seem to have been *lājδēres ~ *lājters, which then became altered by assimilation (> *rājters) or metathesis (> *rājδēles ~ *rājte̩les). The loss of the initial consonant in the SaaL variant ájdaris is difficult to account for; perhaps it derives from the assimilated variant *rājters via a subsequent dissimilatory loss of the first *r. In any case, the oldest form must have been *lājδēres ~ *lājters, as the word is clearly a Nordic loan: its source must have been PNo *hlaidraz ‘ladder’, a noun not preserved in Norse but found in West Germanic, cf. OHGerm leitara (> Germ Leiter), OEngl hlēder ‘ladder’ (> Engl ladder). Qvigstad (1893: 254)
suggested that the Saami forms were borrowed from an unattested ONo *
leiðar. However, the expected ONo reflex would actually be *hleiðr, and moreover, the Saami forms point to a Proto-Norse level of phonological development. Qvigstad also mentioned Estonian redel ‘ladder’ in this connection, but this is an etymologically unrelated word: it was borrowed from Baltic German Reddel ~ Rettel ‘manger; ladder’ (EES s.v. redel).

1.6. SaaN ruohtti, Saal ryetti ‘soot’ (< PSaa *ruottē) < PNo *hrōta-

Koivulehko (2003: 298) explained SaaN ruohtti ‘soot’ as a Germanic loan; the source form can be identified as PNo *hrōta-, the unattested cognate of OHGerm ruoz (> Germ ruß), OSax hrōt ‘soot’, MDu roet ‘grease, soot’ (> Du roet ‘soot’). The origin of the Germanic word remains unknown (Kroonen 2013: 249), but the Saami form shows that it must have once occurred in Norse, too. The distribution of the word is limited to North and Inari Saami, but despite this the borrowing is probably quite old, considering that no trace of the word survives in Norse. The loan etymology is both phonologically and semantically completely transparent, and as such requires no further comment.

1.7. SaaL sjtádtjo ‘frying pan; casting ladle (for lead)’, SaaN stāžžu ‘crucible (for melting lead); iron ashtray under a stove’ (< PSaa *stāńćō) < PNo *stainjō-

As originally proposed by Wiklund (1912: 30–32), the source of the Saami word must have been PNo *stainjō-, the unattested cognate of OHGerm steina, OEEngl stān ‘stone or earthenware pot’ (> Engl dial. stean, stean-pot ‘earthenware pot’). The word was derived from the noun *staina- ‘stone’, and thus it must have originally designated a ‘stone pot’. The Saami word shows

2. In PNo reconstructions I have chosen not to indicate the effects of Sievers’s Law, i.e. the vocalization of *-j- after so-called ‘heavy syllables’, a sound change or morphophonological process which many scholars assume to be of Proto-Germanic or even Proto-Indo-European ancestry. The reason for this is that the Saami languages possess several old Nordic or Germanic loanwords which appear to point to the absence of Sievers’s Law in the donor language, one example being the word *stāńćō discussed here. However, the details of this issue call for a more thorough analysis that is beyond the scope of the present paper.
the substitution of the affricate *ć for PNo postconsonantal *j; this rule has many well-established parallels, e.g. SaaN skálžu ‘seashell’ (< PSaa *skālćō) < PNo *skaljō- (> ONo skel) and SaaN ávža ‘bird-cherry’ (< PSaa *âvéć) < PNo *hagja- (> ONo hegg). The phonological and phonetic motivation of this substitution pattern has, however, not been explained so far.

It should be noted that in South Saami there is a similar noun haadtjoe ~ aadtjoe ‘casting ladle’ (< *(h)āńćō ? < PSaa *ϑāńćō), but the correspondence of initial h- or Ø- to the cluster st- in Lule and North Saami is completely anomalous. It is not clear how this form should be explained, and one certainly cannot exclude the possibility that it is a word of different origin that has become somehow contaminated with the Norse borrowing *stāńćō. Wiklund (1912: 32) proposed that it is a borrowing from a Germanic parallel form *þainjō-, which in his view represents a case of archaic alteration between initial *st- and *t- (> *þ-). Because such a form is not attested anywhere in Germanic, this is an ad hoc speculation, however.

2. New etymologies

2.1. SaaS aajtoe ‘large fire’ (< PSaa *ājtō)
   < PNo *aida-

The loan original *aida- has no direct reflex in Nordic, but it is well attested in West Germanic: OEngl ād ‘pyre’, OFri āde, OHGerm eit ‘fireplace, pyre’ (< PGerm *aida-). Moreover, even Nordic preserves an obscured trace of this root: ONo eldr ‘fire’ (~ OEngl āled ‘fire’) goes back to PGerm *ailida-, a derivative of the verb *ailja- (> OEngl ālan ‘set on fire; burn’), which in turn was derived from the noun *aila- (> OEngl āl ‘fire’). PGerm *aila- goes back to earlier *aid-la-, and is thus ultimately a derivative of PGerm *aida- (Kroonen 2013: 11). Moreover, West Germanic *aida- is in any case of Proto-Indo-European origin because it is cognate with Sanskrit édha- ‘firewood’, Ancient Greek ἀἴδος ‘firebrand’, and Old Irish áed ‘fire’ (< PIE *h₂aidʰo-).

The loan etymology is both semantically and phonologically straightforward. Remarkably, there is a phonological feature pointing to quite early borrowing: PSaa *t as the substitute for PNo intervocalic *d. This suggests that the sound in the source form was still phonetically realized as a voiced stop and had not undergone spirantization (*d > [ð]). In most loanwords, PSaa *δ appears in place of PNo *d in intervocalic position: cf. for example SaaS laajroe ‘way, distance’ < *lājðō from PNo *laidō- (> ONo leið ‘way, road,
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Course'), SaaS raajroe ‘reindeer caravan’ < *rājδō from PNo *raidō- (> ONo reið ‘riding; vehicle’). Thus, if SaaS aajtoe ‘large fire’ had been borrowed from the same (Proto-)Norse language variety as laajroe and raajroe, we would instead expect it to have the form *aajroe (< PSaa *ājδō). Instead, it seems to derive from an older, more archaic Norse variety with intervocalic voiced stops.

Apparently, only one other loanword showing PSaa *t in place of PNo intervocalic *d has been established by previous research: SaaN ruohtu ‘primitive fence made of branches and the like’ (< PSaa *ruotō). This word must have been borrowed either from PNo *trōðō- ~ *trōðōn- (> ONo trōð ‘rafter’, trōða ‘pole, board’, OSw trōþ ‘fence’) or alternatively from PNo *rōdō- ~ *rōdōn- (> ONo rōða ‘pole, cross’, Sw dial. rod ‘fence pole’). Regardless of which etymology is the correct one, it must be concluded that in this loanword the Saami stop *t was substituted for PNo intervocalic *d. One should note that in this connection Qvigstad also lists other Saami forms, e.g. obsolete Lule Saami ruodo, truodo ‘rod, stick’ and North Saami (extinct West Sea Saami dialects) truođđa ‘fishing rod’, truođđi, ruođđi ‘rafter’, which cannot be directly etymologically related. Because their intervocalic consonants (SaaL d, SaaN dd) point to an original spirant *δ, they must be separate, more recent borrowings from ONo trōð, trōða. Moreover, the variation in meaning and the occurrence of several phonological variants with different second-syllable vowels suggest that these forms represent at least three parallel borrowings.

One can also present another new etymology that displays the consonant correspondence Saami *t ~ PNo *d in intervocalic position. The origin of the following set of derivationally related Saami verbs has not been previously explained:

- SaaS ruhtedh ‘take by force, rob’, SaaSk rååtted, SaaK rođđeđ ‘tear at, yank, tug’ (< PSaa *rotē-).
- SaaU ruhttuot, SaaL råhtot, SaaSk rååttad, SaaT rotjad ‘tear at, yank, tug’ (< PSaa *rotō-).
- SaaU rūhttet, SaaL råhttit, SaaN rohttet, SaaI ruttid, SaaK rođđeđ, SaaT rotjit ‘yank, tug (once)’ (< PSaa *rotje-).³

³ In SaaK forms such as rođđeđ, the dot (.) is used to indicate a historically lost vocalic nucleus of what can be synchronically described as a “degenerate syllable” consisting of a mere consonantal onset followed by an overshort vowel which
This set of verbs must ultimately stem from either PNo *rudja- (> ONo ryðja ‘clear, empty; clear land (from trees)’) or the etymologically related PNo *rudō-. The latter verb is not preserved in Norse, but cognates in West Germanic are well attested: MDu roden ‘clear’ (> Du rooien ‘pull out, clear (land)’), MHGerm roten ‘clear’ (> Germ aus-rotten ‘exterminate’) (Kroonen 2013: 416). Germ roden ‘clear (land of trees)’ also belongs in this cognate set, but its -d- reveals that it was adopted from Low German varieties. It is somewhat difficult to determine whether the exact source of borrowing was PNo *rudja- or *rudō-, or even both. In purely phonological terms, the former could have straightforwardly produced PSaa *rotej̣e- ‘yank, tug (once)’, and the latter in turn PSaa *rotō- ‘tear at, yank, tug (repeatedly)’. However, there is a fully regular derivational relationship between these two Saami verbs: verb pairs with the suffixes *-ẹj̣e- for punctual aspect and *-ō- for iterative-continuative aspect are very frequent in the Saami languages, and the derivational pattern is even synchronically at least somewhat productive. Then again, there is also the PSaa variant *rotē- with no overt derivational suffix, and it could represent the historically primary form from which *rotej̣e- and *rotō- were derived within Saami. In that case, the source of borrowing would have been PNo *rudō- rather than *rudja-.

2.2. SaaL ámadadjo ‘appearance, character’, SaaN ámadadju ‘face’ (< PSaa *āme(n)tej̣o)< PNo *hameþja-

This Saami word displays a very unusual phonological structure: a quadri-syllabic root that nevertheless contains no identifiable derivational suffix. As the word cannot be explained as an obscured compound either, this feature in itself suggests loan origin. A potential loan original is provided by PNo *hameþja-, which can be postulated on the basis of West Germanic forms: OHGerm hemidi ‘shirt, garment’ (> Germ Hemd), OSax hemithi ‘shirt’, OEngl hemeþe ‘undergarment with short sleeves, shirt’.

There is a notable semantic difference between the Saami and Germanic forms. However, one can hypothesize that the loan original referred not only to ‘shirt’ but also to ‘skin’, ‘appearance’, or the like, because PGerm *hameþja- is a derivative of PGerm *hamaz > ONo hamr ‘skin, slough, does not appear to be an independent phonological segment (see Sammallahti 2012). Thus, the mentioned form has not two but three syllables (rod-d-jeδ).
shape, form’ (> Far *hamur ‘skin, slough; ghost, apparition’, Icel *hamur ‘skin’), OHGerm *hamo ‘wrapping, garment’, OEngl *hama ‘covering’. The word *hamaz has been borrowed into Finnic as *hameh (> Finnish *hame ‘skirt’). SaaN *hápmi ‘shape, figure’ and *hápmu ‘skin (of a skinned animal); disguise’, in turn, are more recent borrowings from Norse.

The etymology is phonologically quite straightforward, except for a small glitch: the single nasal -m- in SaaL and SaaN represents the weak grade of consonant gradation, and it would thus seem to suggest the presence of an original cluster (*-nt-) on the border of the second and third syllables. The form *ämëtejô would predictably have yielded SaaL *ābmadadjô, SaaN *āpmadadju, whereas the reconstruction *ämëntejô would account for the attested forms. Perhaps however the weak grade is a later irregular development. It is also possible that the form *ämëntejô developed from earlier *ämëtejô by influence of another phonologically close word with the same meaning: SaaS *ååredæjja, SaaU *árruodahkka, SaaL *árudidja ‘face’ < PSaa *ăruntejV ~ *ărõntëke. This word, too, has lacked an etymology so far, but it is obviously a borrowing from PNo *harunda/ō- > ONo *hörun ‘human flesh; skin, complexion’ (see Kroonen 2013: 213). But whatever the background of the weak grade in SaaL *ámadadjô and SaaN *ámadadju is, the phonological discrepancy between the Saami and Norse forms is in any case so small that it can hardly be seen as a serious obstacle to the loan etymology, especially considering that the anomalous phonotactic structure of the Saami noun indicates that it must be a loanword. It is worth noting that Saami noun roots ending in *-ejô are generally Nordic borrowings; compare the following examples:

- SaaN *gåldu, SaaI *käldee ‘spring (of water)’ < *kältejô from PNo *kaldjôn- (> ONo kelda ‘spring’).
- SaaN *hårdu, SaaI *ärdee ‘shoulder’ < *(h)ärtejô from PNo *hardjôn- (> ONo hörðar pl ‘shoulders’).
- SaaN *rådnu, SaaI *rännee ‘animals tracks in snow’ < *rånnejô from PNo *rannjôn- (> ONo renna ‘running, course’).
- SaaL *hilldo, SaaN *hildu ~ *ildu, SaaI *ildée, SaaSk *ilddi ‘shelf’ < *(h)iltejô from PNo *hilþjôn- (> Icel hilla, Far hill ‘shelf’). Note also the variant with differing vocalism: PNo *hulþjôn- (> Sw hylla, Nw hylle ‘shelf’).
- SaaS *dytneje, SaaP SaaL *diddno, SaaN *dëdnu ‘flint’ < *tinnejô from PNo *tinnjôn- (> ONo *tinna ‘flint’). Note that SaaI *tinno, SaaSk *tënn, SaaK *tī̯nn ‘flint’ must be borrowings from North Saami: by regular phonological development, PSaa *tinnejô would have produced the non-existent forms SaaI *tinnee, SaaSk *tī̯nni, SaaK *tī̯nje.
• SaaS raavnije, SaaP SaaL rāvnno (gen rāvno) ‘rowan’ < *rāvnejō (?) ~ *rāvnō) from PNo *raunjō- (> ONo reynir). The SaaP and SaaL forms may have analogically acquired consonant gradation, which is characteristic of originally bisyllabic nouns. Alternatively, PNo *raunjō- may have been separately borrowed as bisyllabic *rāvnō into the predecessor of Pite and Lule Saami.

2.3. SaaL buttas ‘decorative band sewn on the edge of a piece of clothing’ (< PSaa *punteš) < PNo *bundaz

The noun *punteš is only attested in Lule Saami, but it must originally have had a wider distribution, as it is the derivative base of a very widely attested verb: SaaS budtedh, SaaU büddet, SaaP SaaL buddit, SaaN buddet, SaaL puddit ‘sew a decorative band on the edge of a piece of clothing’, SaaSk pu’ddijd, SaaK pu’ijdjed ‘darn, repair by stitching’ (< PSaa *punteje-). The noun can be phonologically flawlessly explained as a loan from PNo *bundaz, the unattested cognate of MHGerm bunt ‘ribbon, band, fetter’ (> Germ Bund ‘bond, alliance, association; waistband’), MSax bunt ‘bond, alliance, agreement’, Du bond ‘society, union, alliance, league’ (Kroonen 2013: 84). Also the semantic correspondence is completely straightforward: the general meaning ‘ribbon, band’ is found in Middle High German, and the Saami word refers to a specific type of ribbon or band used for decorative edging on clothes. The Germanic noun is also the derivational base of the diminutive *bundilō- > Germ Bündel, MDu bundel, OEngl byndele ‘bundle’ (note that Engl bundle does not continue OEngl byndele, but was instead borrowed from MDu bundel). Originally, PGerm *bundaz is a zero-grade derivative of the verb *binda- ‘bind’.

2.4. SaaU dualgguo, SaaL duolggo, SaaN duolgu ‘bribe’ (< PSaa *tuolkō) < West Norse *dulga- (< PNo *dulga-)

The Saami word has been compared to Fi talkoot (plurale tantum) ‘volunteer group work, gathering for volunteer work’, which is a Baltic loanword, cf. Lithuanian talkà, Latvian talka ‘volunteer work, group of volunteer workers, feast organized for volunteer workers’ (SSA s.v. talkoo). However, the assumed semantic development to ‘bribe’ in Saami appears rather far-fetched, and there is thus reason to look for another etymology.
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Gothic *dulgs (gen dulgis) ‘debts’ (< *dulga-) comes formally and semantically close to the Saami word. Assuming that the word also once occurred in Norse, it would have regularly undergone the lowering of *u to *o and thus developed into *dolga- in the West Norse area. Such a form suits perfectly as the loan original of Saami *tuolkō. Indeed, we can find a parallel which must reflect this vowel lowering, as it shows the PSaa diphthong *uo in place of West Norse *o < *u: cf. for example SaaN guolbi ‘earth floor’ (< PSaa *kuolpē), which was borrowed from West Norse *golba- > ONo golf ‘floor’ (cf. Kroonen 2013: 194). As regards semantics, the development from ‘debt’ to ‘bribe’ is easy to understand and the two concepts are quite close: both involve a payment made in order to satisfy the requirements of another party.

It is not a problem for the etymology that attestations of the Germanic word are limited to Gothic. The word appears to be old in any case: it can be analyzed as a reflex of Pre-PGerm *dʰl̥gʰ- and cognate with Slavic *dъlgъ (> Old Church Slavonic dlъgъ, Russian донъ, Czech dluh, Bulgarian dălg, etc. ‘debt’). The Slavic word has also been argued to be a Germanic loanword (Pronk-Tiethoff 2012: 142), but even if this is the case, Old Irish dilgid ‘owe, be entitled to’ and diliged ‘duty’ are still left as cognates of the Gothic word (Derksen 2008: 129–130; Kroonen 2013: 108). There is also a formally identical word in Norse and West Germanic: ONo dolg ‘enmity’, OHGerm tolg, OEngl dolg ‘wound’ (< *dulga-). Due to the semantic difference this is probably of different origin, however: the Slavic cognates point to ‘debt’ as an archaic meaning, from which it is difficult to derive the concrete meaning of ‘wound’ (cf. de Vries 1977: 78–79; Kroonen 2013: 108).

2.5. SaaS gaalve, SaaU gálvva, SaaL gálvva, SaaN gáluva, SaaI kalvâ, SaaSk kâlvv, SaaK kâlv ‘dead and dry tree which has lost its bark (mostly of deciduous trees)’ (< PNo *kalvä)

< PNo *kalwa-

The Saami noun can be derived from an unattested PNo adjective *kalwa-, which has cognates in West Germanic: OEngl calo ‘bald’ (> Engl callow), OHGerm kalo ‘bald’ (> Germ kahl ‘bald; leafless’). The word is of Pre-Proto-Germanic origin and related to Old Church Slavonic golъ ‘naked’, glava ‘head’ and Lithuanian galvà ‘head’ (Kroonen 2013: 278). The basic meaning of the Germanic adjective is ‘bald’, but it is noteworthy that in several modern Germanic languages the word also has the secondary metaphorical meaning ‘leafless’; this is true at least of German kahl,
Swedish *kal* (which was borrowed from Middle Saxon) and Dutch *kaal*. This bridges the semantic gap between the Saami and Germanic forms. Thus, the semantic development of the Saami word was motivated by a metaphorical expression: the lack of leaves (or, perhaps, the lack of bark) on a dead and dried deciduous tree was likened to ‘baldness’.

2.6. SaaL *iktet*, SaaN *iktit*, SaaI *ihted* ‘reveal (something secret), disclose’

< PNo *ihtja-

The Saami verb *iktē-* has no known established etymology. In his dictionary, Nielsen (1979 s.v. *iktē*) regards SaaN *iktit* a derivative of the verb *ihtit* ‘appear, come in sight’ (< PNo *itē-). However, these two verbs do not stand in a regular relationship to one another: there is simply no morphological process in Saami by which *iktē-* could have been derived from *itē-*. Despite their similar meanings the two verbs show no real correspondence beyond their initial vowel *i*, and hence they cannot have a true etymological connection.

A phonologically suitable Norse loan original for Saami *iktē-* can be reconstructed: PNo *ihtja- is the predictable reflex of PGerm *jehtja-, attested in OHGerm *jihten* ‘witness, confess, give a testimony, let decide’, OFri *jechta* ‘confess, convict’. The verb is derived from the noun *jehti- > OHGerm *jiht* ‘confession; praise’, OFri *jecht* ‘confession’ (EWbAhd 5: 292–294). Semantically the comparison is very close: the uniting factor is the reference to a speech act disclosing or revealing some kind of misdeed, either one’s own (‘confessing’) or that performed by another (‘witnessing’). There is no phonological obstacle to the etymology either, as long as it is assumed that the borrowing took place before the assimilation of *ht to tt in Norse. There are several other loans showing the same sound substitution PNo *ht > PSaa *kt:

- SaaS *riekte* ‘straight’, SaaN *riekta* ‘right, correct’ < *riektē < PNo *rehti-(> ONo rētt ‘straight, upright, right’).
- SaaS *raaktse* ‘trace (on a reindeer harness, for pulling a sled)’ < *rākce < *rāktēs < PNo *drahtu-z (> ONo drātttur ‘pulling; hesitation’).
- SaaU *suktta* ‘cold (illness)’ < *suktē < PNo *suhti- (> ONO sótt ‘illness’).
- SaaL *diktet* ‘make watertight’ < *tiktē-, SaaL *divtes* (pl. *diktása*), SaaN *divttis* (pl. *diktásat*) ‘watertight’ < *tiktēs : *tiktēse- < PNo *þihtja-(*þinhtja-) (> ONO þétta ‘make watertight’), *þihtu-z (*þinhtu-z) (> ONO þéttr ‘watertight’). Due to semantic and chronological reasons,
it is unlikely that these Saami words derive from Sw *dikt adj ‘powerful, emphatic, skilled’ (obsolete), *dikt adv ‘tightly’, which were borrowed from MSax *dicht, cognate with ONo *þéttr. Note furthermore that SaaN *deahits ‘watertight, close, dense’ (< *teattês) is evidently a later loan from ONo *þéttr, postdating the change *ht > *tt. These etymologies stem from Qvigstad (1893: 132–133), who however failed to notice that two separate borrowings of different ages are involved.

- SaaN *lavttis (pl. *laktásat) ‘loose, loosely fitting, slack, wide’ < *lektēs : *lektēse- < PNo *līhta-z (*linhta-z) > ONo *létt ‘light (not heavy); easy, unencumbered; nimble, active’). This is a new etymology. The development of PSaa *e from earlier *i has also occurred in some other early borrowings: e.g. SaaN *ladas ‘joint’ < *leðēs < PNo *līpu-z > ONo liðr ‘joint’; SaaN *mas’it ‘lose (irretrievably)’ < *messē- < PNo *missja- (> ONo *missa ‘miss, lose’); SaaN *vahkku ‘week’ < *vekkō < PNo *wikōn- (> ONo *vika ‘week’); SaaL *slahpa ‘rock ledge, inward sloping cliff’ < *slepē < PNo *kliua- (> ONo klif ‘cliff’).

- SaaS *naaktse ‘the dark of night’ < *nākče < (?) *nāktē-s < PNo *naht-s > ONo *nátt, *nótt ‘night’). This is a new etymology. The form *nākče with its cluster *kc = [kts] was probably analogically extracted from a syncopated oblique stem (PSaa *nāktēs : *nākče-, from earlier *nāktês : *nākteše-). However, one cannot completely exclude the possibility that it was directly borrowed from a nom.sg *naht-s prior to the loss of the final sibilant after a consonant stem in Norse (cf. Gothic nom.sg *naht-s ‘night’, with the sibilant retained).

- SaaS *dektier, *daktere ‘married daughter’ < *tökter : *töktāre- < PNo *duhter- (= ONo dóttr ‘daughter’). The Saami word has been previously considered cognate with Finnish *tytär (gen *tyttären) ‘daughter’, which is of Baltic origin (cf. Lithuanian duktė ‘daughter’) (SSA s.v. *tytär). However, the consonant correspondence between the Finnish and Saami words is irregular, so it is more probable that Saami has separately borrowed the word from Nordic.

2.7. SaaL *irás, SaaN *iras, *hiras, SaaI SaaSk *iirâs, SaaK *iras ‘timid, skittish (of animals)’ (< PSaa *irēs) < Early Norse *irriar (< PNo *irzjaz < *erzjaz)

The proto-form of the Saami adjective can be reconstructed as *irēs. The initial h- in the North Saami variant *hiras must be a secondary hypercorrect
addition; the same phenomenon is attested in a couple of other words as well, e.g. SaaN haksit ~ SaaI apsed ‘smell’ (< PSaa *epsē- < PU *ipsā-) and SaaN holga ~ SaaI ulgā ‘beam for drying fishing nets on’ (< PSaa *olke < PU *ulki) (UEW: 83–84, 543).

The adjective *ireš has no known etymology, but it can be both formally and semantically straightforwardly compared to Pre-Old-Norse *irriar, the expected reflex of PGerm *erzjaz. The word is not attested in Norse, but it is found in other branches of Germanic: Goth airzeis ‘deluded, misled, in error’, OHGerm irri ‘erring, ignorant’ (> Germ irre ‘mad, confused’), OSax irri ‘furious’, OEngl eorre ‘angry, enraged, furious’, OFri ire ‘furious’. The Germanic word is of Indo-European origin and related to Latin errō ‘I wander, rove; I go astray, get lost; I err’ (Kroonen 2013: 119).

The phonological correspondence between PSaa *ireš and the Germanic word is unproblematic, as long as it is assumed that the word was borrowed after the development *z > *r in Norse. PGerm *erzjaz would first have yielded PNo *irzjaz by the regular change *e > *i /C(C)j, but Saami *ireš can only have been borrowed from some even later development which can be approximately reconstructed as *irriar and which would have eventually yielded ONo *irr, had the word survived in Norse. The substitution of Saami single *-r- for Norse geminate *-rr- is motivated by a phonotactic constraint, as geminate *-rr- seems not to have occurred in Saami at the time of borrowing. In the modern Saami languages one finds very few words that consistently point to an original geminate *-rr-, and they are mostly recent borrowings and expressive coinages that show a limited distribution. In some instances the origin of the word remains unknown, but even such cases show a narrow distribution and are thus unlikely to be of Proto-Saami origin (e.g. SaaS vaarredh, SaaU várrat ‘run’ < *vārrē-). As regards the substitution of the PSaa second-syllable vowel *-e- for the Norse sequence *-ia- (< *-ja-), this is paralleled by SaaN vuogas ‘comfortable, convenient’ < *yuokes from PNo *hōgjaz (> ONo hœgr ‘easy, convenient’) and SaaN vilddas ‘wild’ < *viltēs < PNo *wilpjaz (> ONo vīllr ‘wild, bewildered, perplexed’).

Considering the correspondence between PSaa *ireš and PGerm *erzjaz, one might consider it problematic that the Saami sibilant *-s corresponds to the Germanic final *-z of the masculine form, but the correspondence of the medial consonants nevertheless presupposes borrowing after the Norse change *z > *r. This mismatch is only superficial, however. First, it is not clear that the assimilation *rz > *rr in Norse would have been
contemporaneous with the general phonological development *z > *r, as in some consonant clusters PGerm *z has become assimilated to the adjacent consonant before the general rhoticization *z > *r (e.g. PGerm *zd- > ONo -dd-, PGerm *zn- > ONo -nn-). Second, Saami word-final sibilants are in any event not a reliable criterion for dating borrowings to the Proto-Norse period. It is true that there are numerous Norse loan adjectives in Saami that show a word-final *-s corresponding to Germanic masculine forms in *-z: cf. for example SaaN stuoris ‘big’ (PNo *stōraz > ONo stórr ‘big’), SaaN ruonas ‘green (of vegetation)’ (PNo *grōniz > ONo grœnn), SaaN ráinnas ‘clean’ (PNo *hrainiz > ONo hreinn), as well as SaaN vuogas ‘comfortable, convenient’ and villdas ‘wild’ discussed above. However, the final sibilant also occurs in borrowed adjectives that, on account of their other phonological features, must have been adopted later than the change *z > *r. A clear example is provided by SaaN eaimmaskas ‘stupid, foolish’, which on account of its first-syllable vocalism was adopted from a post-umlaut Norse form, either from ONo heimskr ‘stupid, foolish’ or from its Pre-Old-Norse predecessor (?) *heimskr, but certainly not from PNo *haimiskaz (which would instead have yielded SaaN *(h)áimmaskas, or the like).

As a matter of fact, there seem to be no adjectives borrowed from Norse that display a final *-r in Saami corresponding to a Norse masculine ending -r. Hence, one must conclude that the Norse ending -r could still have been nativized as *-s in Saami even well after the change of PNo *z to *r, despite the fact that r was a completely normal phoneme in Saami, too. This nativization strategy seems to have been motivated by several factors. First, stems ending in *r were permitted in Proto-Saami, but they seem to have been relatively infrequent and all of them appear to have been nouns; no adjectives of such shape can be reconstructed. Second, the substitution of final *-s for Norse -r could have been motivated by the analogy of earlier borrowings, by way of “etymological nativization” (Aikio 2007). Third, the ending *-s is a highly frequent adjective suffix in Saami: it forms both deverbal and denominal adjectives (cf. for example SaaN váibbas ‘tired’ ← váibat ‘get tired’, suttis ‘unfrozen, not frozen’ ← suddi ‘unfrozen spot, opening in ice’), and it also occurs as a secondary suffix marking the predicative form of some adjectives of Uralic origin (e.g. SaaN njuoskkas pred ‘wet’ < PU *ńički; SaaN odas pred ‘new’ < PU *wudí; SaaN goikkis pred ‘dry’ < PU *kuška-/*koška-) (UEW: 223, 311, 587). The combination of these three factors made it natural to adopt adjectives borrowed from Norse in a form ending in *-s in Saami.
In semantic terms the etymology is completely straightforward. While none of the attested Germanic forms show exactly the same meaning as the Saami adjective, the correspondence is very close. In the Germanic cognates one can discern two main senses, the first of which is ‘deluded ~ misled ~ erring ~ ignorant ~ confused’ and the second ‘mad ~ angry ~ enraged ~ furious’. Either of these could have easily given rise to ‘timid, skittish’. Semantic parallels are provided by SaaN cohcas ‘startled, frightened, bewildered; perplexed, confused’ and MSax arch ‘angry, evil’, Sw arg ‘angry’ ~ ONo argr ‘unmanly, cowardly; lewd’, OEngl earg ‘cowardly, timid’ (< P Germ *arga-; the source of SaaN árgi and Finnish arka ‘shy, timid’).

2.8. SaaN ɪvdni, SaaI ɪvne, SaaSk eu’nn, SaaK ɪyn, SaaT jɪynə ‘color’ (< PSaa *ıvnē)

PNo *ibni- is the expected cognate of OHGerm ebani ‘level, surface, similarity’ (< P Germ *ebni-). This form has in itself only a limited attestation in Germanic, but it is derived from the well-attested P Germ adjective *ebna- ‘even, level’; cf. Goth ibns ‘even, level, flat’, ONo jafn, OEngl efen ‘even, equal’ (> Engl even), OHGerm eban ‘even, equal, straight’ (> Germ eben ‘level’).

In Saami one can postulate a semantic development ‘surface’ > ‘appearance’ > ‘color’. This is well in line what is in general known of the development of words meaning ‘color’. In his discussion of the etymology of Indo-European words for ‘color’, Buck (1949: 1050–1051) notes that “most of the words for ‘color’ reflect notions such as ‘covering’, ‘surface, skin’, ‘countenance, look’ or the ‘hair’ of animals”. Examples of this semantic development from Indo-European and Uralic languages include:

- Ancient Greek χρόα ‘skin, surface of the body, skin-color, color’.
- Ancient Greek χρῶμα ‘color (of the skin), make-up, characteristic appearance’ > Modern Greek χρώμα ‘color (in general)’.
- Latin color ‘color’ < *‘covering’ (cf. the related verb cēlāre ‘hide’).
- Romanian față ‘face, surface; color’.
- Sanskrit varṇa- ‘covering, color’ from vr- ‘cover’.
- Hungarian szín ‘color, appearance, complexion; (archaic:) (upper) surface’.
- Taz Selkup ńūqi ‘surface, cover; tent cover; leather; color’.
2.9. SaaL *muosse* ‘taste; a bit of food to taste’, SaaN *muossi* ‘a bit of food to taste; rest, quiet’, SaaI *myesi* ‘rest, quiet’ (< PSaa *muosē*)

< PNo *mōsa-

The Saami words display rather unusual polysemy. The connection between ‘a bit of food to taste’ and ‘rest, quiet’ is not obvious at first sight, but it is possible to postulate an original meaning ‘food’, which would then have developed to ‘a bit to taste’ on the one hand and to ‘nourishment’ > ‘rest’ (> ‘quiet’) on the other. This semantic reconstruction is further verified by the discovery of the following loan original: PNo *mōsa- ‘food’ can be reconstructed as the unattested Nordic cognate of OEngl OFri *mōs*, MDu *moes*, OHGerm *muos* ‘food’. The West Germanic words continue PGerm *mōsa- (< *mōssa- < Pre-PGerm *mōd-to-). This word stands in an obscured derivational relationship to another, more widely attested Germanic word for ‘food’: Goth *mats*, ONo *matr*, OHGerm *maz*, OEngl *mete* ‘food’ (> Engl *meat*) (< PGerm *mati- < Pre-PGerm *modi-) (Kroonen 2013: 358, 372). The formation must be very old, as the derivative has participated in the regular development of a Pre-Proto-Germanic morpheme-boundary cluster *-d-t- into *-ss-, which was subsequently degeminated into PGerm *-s- when preceded by a long vowel. This proves that the West Germanic word *mōsa- is an archaism that once existed also in the predecessor of the Nordic languages.

2.10. SaaS *plaahkoe* ‘low, flat terrain’ (< PSaa *plākkō*)

< PNo *flaka-/*flakō-

The South Saami word is quite obviously a borrowing due to its initial consonant cluster *pl-. I have earlier argued that the word is related to SaaL *lāhko*, SaaN *lāhku* ‘wide, flat basin up in the mountains’ (< PSaa *lākō) and a borrowing from PNo *flahu- > ONo *fló* ‘rock ledge; gently sloping valley up in the mountains’ (Aikio 2012: 111). However, while the SaaL and SaaN words obviously derive from PNo *flahu-, their connection to SaaS *plaahkoe* (< *plākkō) remains problematic as the latter word contains an original geminate stop; the comparison could only be maintained by an ad hoc postulation of an irregular change *k > *kk. Because Saami geminate stops were regularly substituted for Proto-Norse unvoiced stops in intervocalic position, it is preferable to compare SaaS *plaahkoe* to OHGerm *flah* (> Germ *flach) and MDu *vlac* (> Du *vlak) ‘flat’ (< PGerm *flaka-). Considering that the Saami word has a rounded vowel in the second syllable, the
exact loan original could have been PNo *flakō-, the unattested cognate of OHGerm *flahha ‘surface; sole (of the foot)’, OSax *flaka ‘sole (of the foot)’. However, as pointed out by Johan Schalin in the Academia.edu discussion session, the Nordic languages do have nouns reflecting the form *flaka-: cf. for example Swedish *flak ‘surface; sole (of the foot)’, Icel *flak ‘plain’. As these forms suit very well as the loan original except for the minor issue of the second-syllable vowel, it is possible that the source of borrowing is attested in Norse after all.

2.11. SaaS raavtedh ‘get strength, become effective (of bark liquor)’, SaaN rávdat ‘get color and taste by being warmed or boiled up (e.g. coffee, tea)’ (< PSaa *rāvte-) < PNo *grautē-

The Saami verb can be straightforwardly compared to OHGerm *grōzēn ‘increase, grow thick, become stronger, swell’, OEngl *greātian ‘become great or large’, ge-greātian ‘become thick or stout’ (< *grautē-), a verb derived from the PGerm adjective *grauta- > OHGerm grōz (> Germ groβ ‘big’), OEngl grēat ‘coarse, large, great’ (> Engl great). The meaning ‘grow thick, become stronger’ comes very close to the meaning of the Saami verbs. Note also the etymologically related PNo *grautiz (> ONo grautr ‘porridge’), which was the source of SaaS kraavhtse, SaaN (dialectal) rākca ‘porridge’ (< PSaa *(k)rāvcce < *(k)rāvtte). The word-initial consonant cluster kr- in South Saami indicates that this is a younger borrowing than the verb raavtedh.

2.12. SaaSk raujjeed (rau’jjeed?), SaaK rāvje-de, SaaT rāvăded ‘run, gallop (of draught reindeer)’ (< PSaa *rāvje-tē-) < PNo *þragja-

The Saami verb is derived with the highly productive verb suffix *-tē- (< PU *-tA-) from a root *råvje-, which must stem from PNo *þragja-, the unattested Norse counterpart of Goth *pragjan and OEngl *þrægan ‘run’. The Germanic verb reflects Pre-PGerm *trog⁴-eye-, an intensive formation of

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4. As pointed out by an anonymous reviewer, the SaaSk form raujjeed given in the dictionary by Sammallähti & Mosnikoff (1991) is probably either a recent secondary development or an erroneous normativization, because the dialectal forms attested by Itkonen (1958: 425) point to the literary standard form raujjeed instead.
Loanwords from unattested Nordic source forms in Saami

a verb root *tregʰ- that is also attested in Ancient Greek τρέχω ‘run’; while the occurrence of a plain and an aspirated stop in the same root violates Proto-Indo-European root structure and the verb is thus likely to be of non-Indo-European origin, the presence of a cognate in Greek still shows that it must predate Proto-Germanic (Kroonen 2013: 544). As regards the substitution of Saami *-vj- for the Norse cluster *-gj-, this is paralleled by SaaN ávju ‘edge (of a blade)’ < *āvjō < PNo *agjō- (> ONo egg ‘edge’).

Abbreviations

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References


