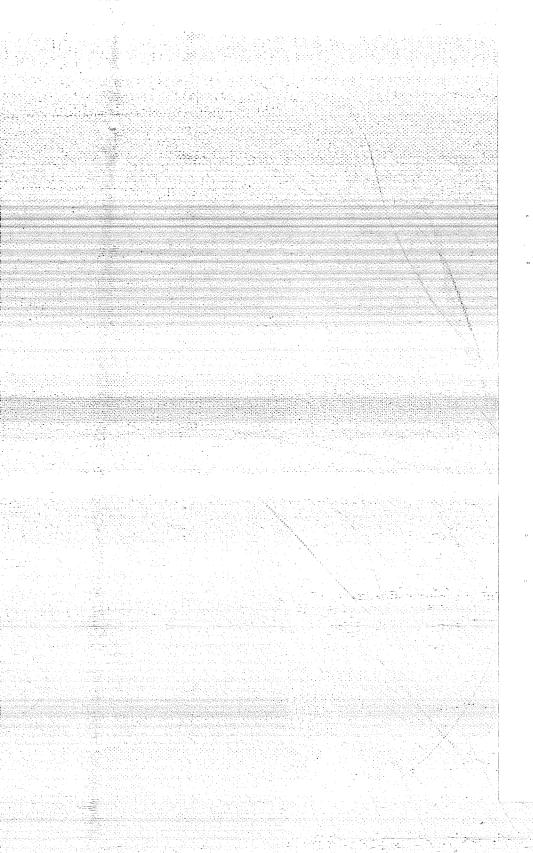


COMPOSITIONES INDOGERMANICAE IN MEMORIAM JOCHEM SCHINDLER

Hrsg. von H. EICHNER und H.C. LUSCHÜTZKY unter redaktioneller Mitwirkung von V. SADOVSKI PRAHA (: enigma corporation) 1999

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Two problems of Anatolian nominal derivation* H. Craig MELCHERT

Much of what I know about Indo-European nominal derivation I owe to the teaching of Joki SCHINDLER. It therefore seems fitting that this be the topic of the following contribution dedicated to his memory. In the first instance an insight of Professor SCHINDLER himself serves as my point of departure.

1. SECONDARY SUBSTANTIVIZING *-I- TO THEMATIC STEMS

SCHINDLER (1980: 390) cites the use of a secondary suffix *-i- to form substantives from thematic stems, themselves usually but not exclusively adjectives: e.g., Grk. ἄκρις/ὅκρις, Lat. ocris 'peak, crag' beside Grk. ἄκρος 'pointed; supreme'. The observation is not original (cf. already BRUGMANN, 1906: 2/1.285 et aliter), but the productive use of this suffix in this particular function seems to have been underappreciated.

Schindler sees this suffix in the type of Hittite *dalugašti-* 'length', which he takes to be based on adjectives in *-osto- (cf. Lat. angustus 'narrow'), along with the corresponding Slavic class in *-osti-. See Vaillant (1974: 376f) for a similar analysis of the Slavic type.

Both the existence of secondary substantivizing *-i- and its application to the Hittite -ašti- type have either been ignored or rejected in previous discussions of Hittite/Anatolian noun formation. KRONASSER (1966: 227) notes a possible connection between the type of Hittite ēdri- 'food' and Greek ἄμρις, but sees *-ri- as a mere "alternate" of *-ro-. NEUMANN (1958: 88ff), in what is the fullest discussion of the Hittite nouns in -ri-, attempts to justify a coherent PIE noun type in *-ri-, but with little success.

STURTEVANT (1933: 156) equates Hittite -ašti- with Slavic *-osti-, analyzed as "*-ti- with some prior element". PEDERSEN (1938: 35) implies a Hittite-Slavic equation with no further specification, while STURTEVANT (1951: 76) merely repeats the Hittite-Slavic equation. Kronasser (1956: 111f) assumes a unitary suffix *-osti-, but later (1966: 208) sees only *-sti- as common to Hittite and Slavic and doubts an exact match. Oettinger (1986a: 10, with note 37) upholds an analysis *-os-ti-, rightly rejecting the argument of Benveniste (1962: 89ff) that Anatolian shows no evidence for the underlying class of neuter abstracts in *-elos-. Oettinger does not, however, offer any motivation for why a second abstract suffix *-ti- would be added to abstracts in *-elos.

Under these circumstances a review of the full evidence for secondary substantivizing *-i- in Anatolian seems called for. I begin with the Luvo-Hittite nouns in -ašti-: Hitt. palhašti- 'breadth', pargašti- 'height', dalugašti- 'length'; CLuv. lumpašti- 'regret'. These nouns, all of which are animate in gender (contrary to some earlier claims), may and should be analyzed as per above as secondary to adjectives in *-osto-. The latter are in turn secondary adjectives in *-to- to neuter abstracts in *-elos-. We have another example of the common process by which a derivational chain substantive — adjective — substantive is formed, where the second substantive competes functionally with the first and replaces it. We also know that such derivational chains break down over time, and we cannot exclude that at some stage in Anatolian or pre-Hittite a unitary suffix *-osti- (or already *-asti-) became productive. We thus need not assume underlying adjectives in *-osto- (much less nouns in *-os-) for every attested example.

We have one piece of direct evidence for adjectives in *-osto- in Anatolian: Lydian teśaśtali- and śrfaśtali- 'right' and 'left' (or vice-versa). As per Gusmani (1964: 206, 212), the attested examples of these words are clearly adjectives in context (or 'the right/left one'), not abstracts ('right/left [side]'), contra Oettinger, 1986a: 34¹⁰⁷. The -i- of the Lydian neuter nominative-accusative singular ending -id in this case is the "mutation-i" explicated by Starke, 1990: 82ff, exceptionally extended to the neuter as part of the generalization of the pronominal ending -d.

An even more productive class of secondary nouns in *-i- is comprised by those in -ri-. These are in origin secondary substantives in *-i- to adjectives in *-ro-. In at least one case we have indirect evidence for both the underlying adjective and derived noun: as per CARRUBA (1990), HLuvian *mi-za/i+ra/i- and Lycian *mizre- (in the personal names /Mizra-muwa-/ and Mizretije-) reflect directly the adjective *mis-ró- 'shining, luminous' reconstructed by NEUMANN (1958: 88) as the base of the noun *mis-r-i- 'splen-

dor' whose existence is required by the Hittite adjective *mišri-want-* 'shining, splendid' (with "possessive" *-went-).

A second likely example of such a pair is Hitt. āndara- 'blue' (< *mdro-, as per MACHEK, 1949: 131f) and (SIG) āntari- (animate) 'blue(ness); blue wool'. However, the fact that adjectives can become substantivized without suffixation and the very complex history of the "mutation-i" in Luvian and Hittite leave some room for doubt.

Further assured examples of this type are the Hittite animate nouns $\mathrm{SiG}_{ki\check{s}ri}$ - 'fleece', $l\bar{u}ri$ - 'loss' and $m\bar{u}ri$ - 'bunch' (<*m(V)uH-ro- 'mighty, powerful' to $m\bar{u}wa$ - 'power, might', as per Michael Weiss, forthcoming). The synchronically neuter nouns $\bar{e}dri$ - 'food' and $\bar{e}\check{s}(\check{s}a)ri$ - 'image' (<* 'essence' $<*h_1es$ - 'be', pace Kronasser, Neumann, et al.) also belong here. Given their meaning, I would attribute the attested gender to backformation from or reinterpretation of collective plurals to originally animate stems: cf. for the process the famous example of Grk. ἄστρον 'star', backformed from coll. pl. ἄστρα to ἀστήρ. For collective plural to animate stems in Hittite see Eichner (1985).

Further likely examples of animate stems include Hitt. $^{SiG}\bar{e}\check{s}(\check{s}a)ri$ 'fleece' (prob. = $\bar{e}\check{s}(\check{s}a)ri$ - 'image' < *'essence'), $pa\check{s}\check{s}ari$ - 'circle' (MELCHERT, 1983: 140), and auri- 'watchtower' (but the by-form awari- is problematic). Hitt. $p\bar{u}ri$ - 'lip' and CLuv. $t\bar{u}rali$ - 'spear, lance' also probably belong here, but are unprovable. Several of these cases may show a secondarily productive -ri-, and it cannot be excluded that such productivity was encouraged by the presence of Hurrian loanwords in -ri, as suggested by NEUMANN, 1958: 89.

Both Luvian and Hittite show a variety of further secondary substantives in *-i-. SCHINDLER (1978) already noted Hitt. šalpi- 'dog-dung' < *sal-bho-'dirty gray' (beside the directly substantivized adjective šalpa- with the same sense). We may add Hitt. šakti- 'sick-maintenance' < *sókto- 'illness' (after WATKINS, 1974); Hitt. dannatti- 'desolation, emptiness' \leftarrow dannatta-'empty, desolate' (see further below for the base adjective); and CLuv. ānnari- 'force' (noun!) \leftarrow ānnarali- 'forceful'. I also propose that Luvo-Hittite tawani- 'stem, stalk' is such a substantive from tawana- 'upright, straight; honest / moral'. Given the concrete sense of the derived noun, the adjective should probably be analyzed as a virtual *(s)tóláwelono- *'standing upright' < *steh₂- (contra PUHVEL, 1989: 360f, who does not recognize the connection of adjective and noun).

Finally, in view of the just demonstrated existence of secondary substantivizing *-i- in Anatolian, I would also include here two other minor productive classes of Hittite. ČOP (1966-68: 44f) already correctly analyzed "instrumental" and result nouns in -ulli- as *-u+d^hlo+i-: e.g. $^{SIG}huttulli-$ 'tuft of wool' $\leftarrow hu(e)tt$ - 'pull', ištappulli- 'lid, cover' \leftarrow ištapp- 'close, stop up', kaliliulli- 'binding' \leftarrow kaliliye- 'bind'. For the connective -u- so favored in Hittite compare -uzzi- as the productive form of primary *-ti-. For the synchronic neuter gender see the remarks above on $\bar{e}dri$ - 'food' and $\bar{e}\check{s}ri$ -'image'. ⁴ The certain existence of -ulli- argues that we should read and analyze likewise a smaller set of "instrumental" and result nouns in -utri- < *-u+tld^hro+i-: waššutri- 'clothing/garment' (KUB XI 13 v 12), KUS happutri- (part of harness $\leftarrow happ$ - 'fit together'), surely also $^{GIS}tittutri$ - '?'. ⁵

ČOP, writing thirty years ago, understandably did not feel the need to motivate the *i*-stem inflection, attributing it to the widely acknowledged "rampant productivity" of *i*-stems in Hittite and Luvian. The demonstration of "*i*-mutation" by STARKE (1990: 62ff and passim) has now drastically changed the picture, and we should no longer be prepared to accept unmotivated *i*-stem inflection as a matter of course.

BRUGMANN (1906: 2/1.339ff) already suggested that the apparently primary suffixes *-tlo- and *-tro- (and by implication the variants *- d^hlo - and *- d^hro -) originated as thematic adjectives to agentive *-tel and *-ter. It therefore does not seem unreasonable to suggest that the origin of Hittite nouns in -ulli- lies in secondary substantives in *-i- to such adjectives in *- d^hlo -. It is true that this account would imply that Anatolian inherited *-tl(-)o- and *-tr(-)o- in a very archaic guise, but I emphasize again that only the beginnings of the formation need be old. Many of the attested examples surely reflect a very late productive unitary deverbal -ulli-. It is also worth noting that Anatolian shows very few examples for substantival *- t/d^hlo - and *- t/d^hro - (see MELCHERT, 1993a).

Whether or not the above analysis of *-ulli-* and *-utri-* proves valid, the other examples cited demonstrate that a secondary suffix *-*i-* is well attested in Hittite and Luvian in the function of forming substantives from thematic stems. This evidence should be taken into account in further exploration of this phenomenon in Indo-European.

2. SECONDARY DENOMINATIVE *-TO- TO THEMATIC STEMS

One of the most characteristic and surprising features of Anatolian in terms of nominal derivation is the near-total absence of the primary suffix *-to- which productively forms verbal adjectives in other ancient In-

do-European languages: see OETTINGER, 1986a: 23, for the few possible indirect examples.⁷

In view of this situation, it is all the more significant that Anatolian shows substantial evidence for secondary denominative *-to-. Examples based on neuter s-stems have been cited above (see already OETTINGER, 1986a: 23). I will focus in what follows on derivatives from thematic stems, whose existence in Anatolian has been recognized, but whose extent has not been fully appreciated. Two preliminary remarks are in order.

First, differing accentual patterns and a Proto-Anatolian sound change lead to two attested types. In cases where the accent fell on the *-tó- or on the final syllable of the base, the result was PA *-o-tó- or *-ó-to-, where the voiceless stop was maintained. When the accent fell on an earlier syllable, PA *-´o-to- underwent ,,lenition" to *-´o-do- (MELCHERT, 1994: 60f, following EICHNER and MORPURGO DAVIES). For the varying position of the accent see BRUGMANN, 1906: 404f.

A second problem which I must emphasize is the difficulty of distinguishing animate nouns in *-to- from those in *-t- and those in *-ti- in Luvian. As per STARKE, 1990: 59ff, the obligatory addition of the "mutation-i" to the nominative and accusative of animate stems (with deletion of a final thematic vowel of the stem) means that animate stems in *-t(i)- and in *- $t\phi(i)$ - become synchronically indistinguishable. As demonstrated by RIE-KEN, 1994: 47, it is also clear that original nouns in *-ti- with -i- throughout the paradigm lost the -i- outside the nominative-accusative by back-analogy to the "i-mutation" type and hence also became indistinguishable from the latter. The three types remain distinct only in the nominative-accusative singular neuter: -ttan=za, -za (< *-t-sa), and -tti=ša. Obviously, this fact is of no help in the case of animate nouns. In the face of this massive ambiguity, I have restricted the following discussion only to examples whose status as secondary derivatives seems assured, since secondary use of *-t- or *-ti- in the attested function seems far less likely. Even so, the Luvian evidence cited should be viewed with the above caveat in mind, and I do not view the assignment of all individual examples as assured.

We have at least one direct example of such a secondary adjective in (unlenited) *-o-to-: Luvo-Hittite dannatta- 'empty, desolate' (in Luvian with "i-mutation"), best derived with WEEKS (1985: 195) from a virtual *d^hnno-to- (cf. the references in TISCHLER, 1991: 98). The large number of examples of the stem dannatta- makes very implausible the attempt of TISCHLER (1991: 100) to explain this stem as resulting by "nasal reduction"

from the rarer *dannant*-, which is a separate and independent derivative of *dhnno-.

More plentiful are secondarily substantivized examples. The most coherent class consists of Luvian abstracts, which are unsurprisingly neuter, a group recognized by STARKE (1987: 251f): happinatta- 'wealth' \leftarrow *happen-; huipa(ya)tta- 'wickedness' < *huipa(ya)- 'wicked'; pihatta- 'splendor' \leftarrow *piha- 'luminosity'; šarlātta- \leftarrow *sarla/i- 'exalted' (= attested HLuv. SUPER-la/i-). We may also add here irhatta- 'circle' < irha- 'boundary, edge'. Note that here a nominative-accusative such as šarlattan=za assures that the suffix is *-(o)-to-. The stem nātatta- 'reed', attested only once in the nom.-acc. plural nātatta, could be neuter and belong here (so STARKE, 1987: 251^{33} , and 1990: 138^{420} ; 418) or represent the collective plural of an animate stem as in the next paragraph.

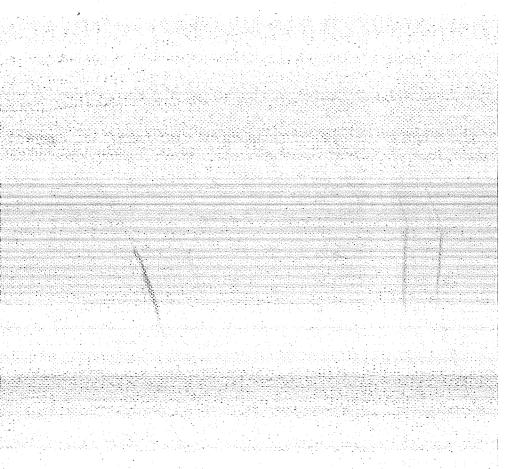
Names of persons and some concrete objects are animate gender (hence with "i-mutation"): CLuv. huppartali- 'pelvis' \leftarrow huppar- 'bowl' (also in hupparatiyatali- 'id.' below), harduwattali- 'descendant' \leftarrow harduwa- 'id.', HLuv. hu-ha-tali- 'ancestor' \leftarrow hu-hali- 'grandfather' (also in CLuv. huh-hat(t)allali- 'ancestral'), CLuv. wanattali- 'woman' \leftarrow wāna- 'id.'.

STARKE (1980: 76f, 1987: 251f, and 1990: 64), citing only the examples referring to persons, assumes a secondary suffix *-ti- instead, which OETTINGER (1986a: 10) compares to Ved. <code>yuvati-</code> 'young woman'. As per above, this derivation is equally possible in formal terms. A choice between the two alternatives depends in part on whether <code>yuvati-</code> represents an actual "type" in *-ti- (see on this point WACKERNAGEL-DEBRUNNER, 1954: 639f). The example of 'pelvis' makes more likely an inner-Anatolian connection with other secondary stems in *-o-to-. Those stems with grammatically animate gender inevitably took on the "mutation-i" established by STARKE.

For the "lenited" type in *-odo- we have again one directly attested secondary adjective: CLuv. $p\bar{u}nata/i$ - 'all' $\leftarrow p\bar{u}na$ - 'mass' (or similar; for the correct sense see STARKE, 1990: 303 with note 1034).

Once more there is rather more evidence for substantives: CLuv. handawata/i- 'supreme authority, king' $+ \frac{10}{4}$ + $\frac{10}{4}$ + $\frac{10}{4}$ handawa- 'foremost, supreme'; $\frac{10}{4}$ hupparta/i- 'pelvis' $+ \frac{10}{4}$ hupparta/i- 'pelvis' (note again the noun-adjective-noun chain); $\frac{10}{4}$ in the noun-adjective-noun chain); $\frac{10}{4}$ in the result of a pelvis' (perhaps attested as personal name) $+ \frac{10}{4}$ and $+ \frac{10}{4}$ in the result of a daughter' (perhaps attested as personal name) $+ \frac{10}{4}$ and $+ \frac{10}{4}$ in the result of a daughter' (revising STARKE, 1987: 252ff).

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Hittite shows two examples of this class: NINDA wagata- (animate!) 'snack-bread, roll' < waga- 'a bite'. The assured gender and stem of this example also argue compellingly that kušata- 'bride-price' (collective plurale tantum) < kuša- 'bride' is to be interpreted in the same fashion, not (!) as an abstract †kušatar with loss of final -r.

Finally, I believe that secondary lenited *-odo- < *óto- is also the ultimate source of the very problematic Lycian formant -ada, which appears to function in some cases as the collective plural to n-stems. We find the collective plural mrbbanada beside the stem $mrbb\tilde{e}|\tilde{a}n$ - seen in the ablative-instrumental $mrbb\tilde{e}nedi$ (sense unclear). As per INNOCENTE, 1987/88: 11f, and MELCHERT, 1992: 35, the form $hr\tilde{m}mada$ seems to be the plural of the n-stem $hr\tilde{m}m\tilde{a}n$ - 'temenos'. We may also add *punamada, required by the further derivatives $punamad\vartheta a$: and punemedezeli-, standing in the same relationship to the n-stem punaman- 'totality' identified by STARKE, 1990: 299.

A clue to the source of the "ending" -ada is provided by Hitt. šimmanata-'form, shape' (collective plurale tantum). The latter may be derived from an n-stem *sēmn, (i.e. *séh_I-mn,), which may be at least formally equated with Lyc. hēmen- (see HAJNAL, 1995: 33). I suggest that a unitary suffix *-odo- resegmented from the *-o-do- described above was used to form secondary derivatives from n-stems, resulting in Hitt. šimmanata- and Lycian mrbban-ada.

The shorter forms $hr\tilde{m}mada$ and $*pun\tilde{a}mada$ are due to a well attested confusion in Lycian between neuter o-stems and n-stems. By regular developments both types had a nom.-acc. plural in -a: ara 'what is proper' < * $allow{d}$ / $allow{d}$

The reason for the apparent specialization of the extended stem in *-odo-to the collective plural in Lycian is quite unclear. It is worth stressing, however, that such a specialization may be illusory, due to the very restricted nature of our evidence. We cannot, strictly speaking, be certain that $hr\tilde{m}$ -mada is the synchronic plural to the stem $hr\tilde{m}\tilde{m}\tilde{a}n$ -; i.e., that the relationship is paradigmatic. Indeed, the fact that * $pun\tilde{a}mada$ serves as the base for further derivatives ($punama\vartheta\vartheta ali$ - and punemedezeli-) tends to argue against

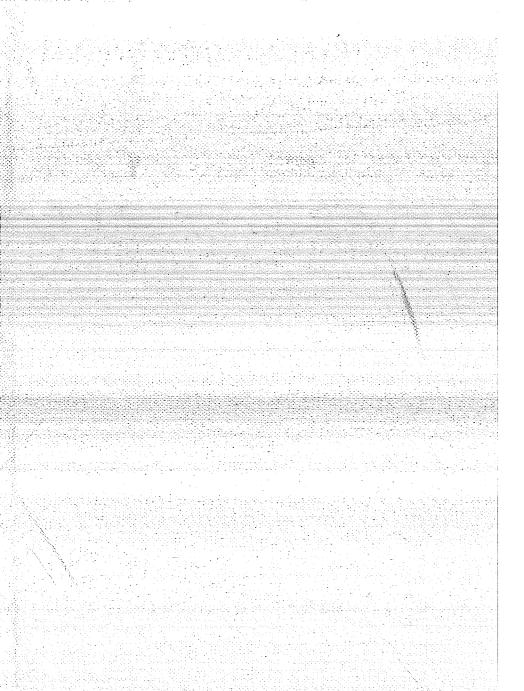
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the idea that the former is merely the paradigmatic plural of $pun\bar{a}man$. Formation of secondary derivatives from an inflected form instead of the stem would be peculiar. Perhaps, then, Lycian collectives in -ada represent fully independent derived stems in *-ede-, corresponding to Hitt. wagata-. Any difference in meaning versus the base n-stems escapes us. In any case, the independent evidence for *-o(-)do- in Anatolian makes it a likely ultimate source for the Lycian type.

NOTES

- * I presented a first version of this paper at the *Fourteenth East Coast Indo-European Conference*, held at Harvard University, Cambridge, Mass., June 30 July 3, 1995, and dedicated to the memory of Jochem Schindler. I am grateful to various participants for helpful comments and criticisms, in particular Michael Weiss. I alone, of course, should be held responsible for the views expressed here.
- 1. As for *-osto-, OETTINGER sees only a possible secondary role in terms of "backformations", a view he wrongly ascribes to VAILLANT.
- ^{2.} CLuv. ašriwant(i)- 'feminine' (or sim.) also presupposes a noun *ašri- 'wo-manhood, femininity'

 **asr- 'woman'. Contra STARKE, 1987: 254 and 1990: 170, and OETTINGER, 1986b: 124, the word for 'woman' itself is not an *i*-stem, as shown by ašrul(i)- 'female' and other derivatives, and cannot be the base of ašriwant(i)-. The alleged i/ya-stems of Luvian do not exist: see CARRUBA, 1982, and MELCHERT, 1990.
- ^{3.} I would agree with PUHVEL that *tawana* is also the first member of the title of the Hittite queen *tawananna* and that the word is of Indo-European heritage. However, since the holder of this title is often the 'queen-mother' (mother of the reigning king), a widespread ancient Near Eastern institution, we should probably analyze the whole as a determinative compound with *anna* 'mother' instead of a derivative with a suffix matching Latin -ōna.
- ^{4.} The example ^{SIG}hu -ut-tul-liš (KBo XVIII 193 Ro 9) is not evidence for animate gender, since the last sign may also be read as li_{12} in Hittite: see correctly PUHVEL, 1991: 351.
- 5. Since the cuneiform sign RI can also be read as TAL, and since none of these nouns is yet attested in a case other than the nominative-accusative singular, a reading waššuttal- etc. cannot strictly be excluded. However, the parallel with -u-lliargues for reading -u-tri-, and to my knowledge this is the universally accepted reading.
- ^{6.} Or *-tlo-. In MELCHERT (1994: 160) I denied the possibility that *-VtlV- also might assimilate to Luvo-Hittite -VllV-. However, my relevant rule (1993a: 110; 1994: 87f) affecting final sequences of *-Cl/rom/s would have produced paradigmatic allomorphy *-ttal# beside *-tlV-. As I now realize, nothing precludes that the latter sequence underwent assimilation to *-llV-, which was then leveled out in the



few nouns in *-ttal* based on the nom.-acc. singular. In nouns in *-ulli-*, which would have had no forms in *-ttal*, the assimilated form naturally would have prevailed. Likewise, Hitt. *pulla-*, if it means 'child, son', could represent **putlo-* (HOFFMANN, 1992: 292) with generalization of the assimilated allomorph, pace MELCHERT, 1994: 160.

- 7. The *-to- which forms substantives ("νόστος-type") is equally rare. Besides Hitt. *sākta- 'illness' < *sókto- (sic!) and Pal. tārta- 'curse' cited by OETTINGER, compare possibly Luvo-Hittite ašta- 'spell, charm' (= Lat. astus 'wile, cunning', as per NEUMANN apud TISCHLER, 1977: 86).
- 8. In principle, the lengthening of accented *ό in Hittite and Luvian (see MELCHERT, 1994: 146f, with references) should allow us to distinguish these two cases. However, the very optional status of "scriptio plena" in closed syllables makes actual determination of the vowel length and hence accent quite difficult.
- 10 . Contra MELCHERT (1993b: 52) this word cannot be directly equated to Lycian $x \tilde{n} tawat(i)$ 'ruler'. The difference between unlenited -t- in the latter and the lenited single -t- (= /-d-/) in the former must not be ignored. We also cannot tell whether the Luvian word is an abstract or refers to a person.
- ^{11.} Lycian here shows the innovative plural in *-'mneh₂ (cf. OH šarāmna to ša-rāman-), not the original *-'mō (preserved in OH šarāma). See GERTZ, 1982: 28f & 298f, for the latter type.

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