The Hieroglyphic Luwian demonstrative ablative-instrumentals 
zin and apin*

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1. Introduction

Recent work on Luwian grammar has shown that the formal and semantic characteristics of the pronominal demonstratives za- “this” and apa- “that” are fairly well understood. The demonstrative adverbs of place and time on the other hand are not only formally less clear but also need further semantic demarcation. The proximal adverbs zin, zati/zari, zitil/ziri all presumably mean “here”, the non-proximal adverbs apin and apatil/apari mean “there”, and apin is also translated with “then”2. The adverb zari is also once used as an adverb of manner “thus, in this way”3.

Contrasting with this abundance of adverbial formations, the pronominal paradigm of za- and apa- shows a remarkable empty slot: the ablative-instrumentals of these demonstratives seem to be completely absent4. MeIchert, Luwians, p . 191 assumes that the unattested ablative-instrumental of za- “this” must have been *zati5. This view is supported by the existence of the ablative-instrumental of the Hieroglyphic Luwian interrogative/relative stem, REL-a-ti /kwadi/ (o.c., p. 191 n. 19). But, as I intend to show,

1 I would like to thank Prof. O. Carruba, Prof. Th. van den Hout, Prof. C. Melchert, Prof. N. Oettinger, Prof. G. Pinault and Prof. M. Poetto for their very helpful remarks and suggestions, especially regarding the formal features of zin and apin, discussed in section 5. I am most grateful to Prof. E. Rieken for kindly sharing with me her article for the conference proceedings. I would like to mention here Dr. Th. Zehnder, who independently arrived at the same conclusion regarding the analysis of zin and apin. Needless to say, I take full responsibility for the contents of this paper.

2 Plöchl, Einführung, pp. 84-85; Payne, Hieroglyphic Luwian, p. 27.

3 Plöchl, Einführung, p. 84. Not mentioned by Payne, Hieroglyphic Luwian. The adverb apatil/apari is not attested as an adverb of manner “thus” (contra John David Hawkins, Corpus of Hieroglyphic Luwian inscriptions, Vol 1, Parts 1-3, Inscriptions of the Iron Age. Berlin-New York: Walter de Gruyter 2000, p. 257, 258 (= CHL1)). The MARA$ 4 § 15 attestation ā-pa-arali as the rhotacized variant of /apadi/ is problematic because the date of this inscription, the mid-9th century B.C., is too early for rhotacism of intervocalic dental stops. This anachronism is avoided if we take ā-pa-arali as the syllabic writing of POST-ri “afterwards” (compare the Empire attestation *a-pa+rali “afterwards” on the EMIRGAZI1 altars § 3 (J.D. Hawkins, “Scripts and Texts”. In: The Luwians, p. 160), but probably also KARKAMIS A1a § 7, 10, 16, *a-pa+rali(-i)).

4 Plöchl, Einführung, p. 70, 71.

also zin and apin need to be analyzed as ablative-instrumentals, filling the hitherto empty slot in the pronominal paradigm.

In sections 2 and 3 I will discuss zin and apin respectively. Section 4 deals with the geographical and chronological distribution of these forms, and in section 5 I will present a formal analysis, linking our forms to Proto-Indo-European. As part of this discussion I will reconsider the difficult phrase za-na a-pa-ha in AŠŠUR a § 6.

The reanalysis of zin and apin sometimes leads to a different understanding of the context. I will therefore provide some alternative meanings for the following lexemes: (**256**)zi-pa-ta-ni- “measuring scoop” (ex. 8); “AVIS”(-)ta-wali-ni- “stele (??)” instead of bird-offering (ex. 9); a-ra-li-ma-za “standing stone” (ex. 9); LINGERE-ha-sa- “good events, favor” instead of “luxury” (ex. 20, 21).

2. The demonstrative ablative-instrumental zin

Besides the demonstrative adverb zati (rhotacized zari) “here”, which is firmly established as the deictic adverb that locates events and situations in the vicinity of the deictic center, there exists another form based on the proximal demonstrative za- that seems to denote geographical proximity: the deictic element zin 6. The examples in this section testify that zin as a locative adverb of place “here” certainly makes sense in all contexts in which it occurs. However, this still leaves unexplained why the adverbs zin and zati occur in the same text if both are to be understood as “here”:

1 | (“VITIS”)wali-ia-ni-sa-pa-wali-i | za-ri+i | sa-na-wali-ia-ta- | 7
And the vine was good here.

2 | wali-na- | 8 | lá-pi-i | zi-na | “AVIS”(-)ta-wali-na-ri+i | (“PES”)u-pa-ha 9

6 CHLI p. 59, 66; Payne, Hieroglyphic Luwian, p. 27; Plochl, Einführung, pp. 69, 84-85. The sequence zi-ta in KARATEPE § XXXI can not represent zin=ta, which should have been spelled as either zi-ta or zi-tä, but has to be understood as zita/ “thereafter” (see Elisabeth Rieken, this volume).

7 SULTANHAN § 7, mid-8th century B.C.; CHLI p. 466.

8 This sequence might also be read as *a-wali-na, with ‘initial-a-final’ (Hawkins, Luwians, p. 159-161; H. Craig Melchert, “A Luwian Dedication”. In Indo-European Perspectives. Studies in Honour of Anna Morpurgo Davies, ed. J. Penney. Oxford University Press 2004, p. 373), although I am not certain whether each sequence with final non-phonemic a should be understood as this ‘initial-a-final’. SULTANHAN contains a-wali-sa (§ 3) besides wali-sō (§ 5) and ni-pa-wali-sa- (§ 48). In § 48 the sign a cannot indicate a vowel but has to be a space filler, and § 3 and § 5 show that a=wa=as and wa=as alternate within the same text. This text might therefore also contain wali-na- = wa=an besides a-wali-na = a=wa=an (§ 4). Melchert, Luwians, p. 210 assumes that spellings such as wali-na are simplifications of wali-na-a, and he therefore rejects genuine aphaeresis, not only for a-wali- but also for apa- “that”, anu- “1”, anu- “my” and as- “to be”. However, preliminary research on the orthography of apa- “that” shows that the ‘initial-a-final’ seems to be limited to texts not later than the early 9th century, but that aphaeresis (or simplified orthography?) is attested in all periods. For apa- we can discern the following complementary distribution. Until ca. 900 BC we find *a-pa- and a few cases of pa-. Interestingly, and, as yet, unexplained is that only the dat.-loc.sg. in initial position can be written without ‘initial-a-final’. Forms with aphaeresis (now also including the acc.s. and abl.-instr.) continue to exist after 900 BC, but *a-pa- is almost completely replaced by á-pa-. The only
I rededicated him with a “AVIS”-ta-wal-ini here (??).

The issue of the function of zin and its alleged synonymy with zati (zari) is resolved if we take the Phoenician-Luwian correspondence between the proximal forms in KARATEPE § LXIII at face value:

3 ARHA-wwalita “*69”-ti-wali (LITUUS)á-za-ti-walitâ-sâ á-ta5-ma-za
PORTA-la-na-ri+i zi-na11
I shall delete Azatiwatas’s name from these gates.

4 'ṣ ymh šm 'ztwd b-šr z
who 3S-efface name (of) Azatiwada in/from-gate this
(...,) who effaces the name of Azatiwada from this gate.

Phoenician and HLuwian both have demonstrative proximal pronouns and demonstrative proximal adverbs:

<table>
<thead>
<tr>
<th>Phoenician</th>
<th>HLuwian</th>
</tr>
</thead>
<tbody>
<tr>
<td>pro-/adnominal proximal demonstrative</td>
<td>za-</td>
</tr>
</tbody>
</table>
| “this” | za-
| adverbial proximal demonstrative “here” | k (= ko) |
| “here” | zati |

Figure 1 - Phoenician and HLuwian pronominal and adverbial proximal demonstratives

In view of the fact that both languages show a similar distribution in the syntax of demonstratives, we would expect that the alleged adverb zin corresponds with k “here” and adnominal za- with adnominal z. This finds support from all clauses with adnominal za-:

<table>
<thead>
<tr>
<th>Clause</th>
<th>HLuwian</th>
<th>Phoenician</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ LIIf</td>
<td>za “CASTRUM”há&lt;-+ra/i&gt;-ni-sà-za</td>
<td>h-qrt z</td>
</tr>
<tr>
<td>§ LXV</td>
<td>CASTRUM-ni-st za-ti</td>
<td>‘yt h-qrt z</td>
</tr>
</tbody>
</table>

exception is the 8th century ADIYAMAN 1 inscription, with *a-pa-si-i á-ta5-ma-za “that one’s name” (§ 8). There are also a few instances of a-pa- in texts that otherwise show á-pa- (a-pa-ri+i in KARATEPE Ho § XXXI; a-pa-(-ha) in ASSUR a § 6 and a-pa-zi in ASSUR b § 8 and f+g § 21; a-pa-sa-na in TOPADA § 36 and a-pa-sa-ha in § 38 (see Alwin Kloekhorst, “The Preservation of *h1 in Hieroglyphic Luwian: Two Separate a-Signs”, Historische Sprachforschung, Heft 20041117,1, p. 29 fn. 7, 32). If it is true that spellings such as wali-na are simplifications of *a-wal-i-na but still represent lawan/, we need to explain why *a-pa- was consistently replaced by á-pa- instead of being simplified to pa-. Clearly, the subject of aphaeresis and the chronological distribution of ‘initial-a-final’ require more research, incorporating the results of Kloekhorst’s study on the phonemic values of the signs a and á.

9 SULTANHAN § 12, mid-8th century B.C.; CHLI, p. 466.
10 CHLI, p. 466 translates “afterwards I presented ...”. See now Melchert, FsMorpurgo Davies for a discussion of the verb (PES)upa- “to dedicate, furnish, give”.
11 KARATEPE § LXIII, early 7th century B.C.; CHLI, p. 57.
The question is now why *zin* in § LXIII should correspond with adnominal Phoenician *z* instead of with adverbial *k*. On the assumption that adverbs correspond with adverbs and adnominals with adnominals, the phrase PORTA-la-na-ri+i *zi-na* "from gate *zi-na*" should syntactically match *b-s'rz* "from this gate". Since the demonstratives *z* and *zi-na* both modify "the gate", it follows that *zi-na* functions as an ablative in agreement with the ablative noun PORTA-la-na-ri+i.

The classification of *zin* as the ablative of *za-* and by analogy *(a)pin* as the ablative of *(a)pa-* would solve the mystery of the hitherto absent demonstrative ablative-instrumentals, noted for example by Melchert (Luwians, p. 191) and Plöchl (Einführung, p. 70)^12^.

With this reanalysis of *zin* and *(a)pin* the Corpus now contains ample evidence of the ablative-instrumental of *za-* and a few cases of *(a)pa-*.

A noun phrase containing a proximal adnominal demonstrative ("this N") usually refers to an object located in the immediate vicinity of the inscription, but sometimes the demonstrative expression refers to the inscribed object itself. Both uses occur simultaneously in MARAŞ 14 § 12:

5  lza-wa/i-ja-ta- ' ("STELE")wa/i-ni-za-i lzi[i-i-]na lLOCUS-ta₄-ta-la-ti-i l("SA₄")s₄-ni-wa/i-l-i¹³

I shall overturn this stele out of this precinct.

The analysis of *zin* as an adnominal abl.-instr. of *za-* instead of an adverb finds further support in the antecedent demonstrative noun phrase lza-na lLOCUS-ta₄-ta-li-i-na "this precinct (acc.sg.)" in MARAŞ 14 § 2.

KARKAMIŞ A6 contains one self-referential expression and two attestations of adnominal *zin* referring to the sculptures accompanying the inscription of Yariris (for the correlative occurrences of *zin* in this inscription see ex. 13). The inscription is written on an orthostat, with originally on the left a procession of attendants and on the right a procession of prince, regent and children^14^.

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^12^ Plöchl (Einführung, p. 70) and Payne (Hieroglyphic Luwian, p. 26) assume formal identity between the abl.-instr. and the dat.-loc.sg. Melchert (Luwians, p. 191) on the other hand reconstructs an abl.-instr. with short final [-i] (CunLuw *zāti* = Hluw *tsadi*), against the dat.-loc.sg. with long final [-i] (CunLuw *zāti* = Hluw *hsadi*).

^13^ MARAŞ 14 § 12. early 8th century B.C.; CHLI, p. 266.

^14^ Hawkins, CHLI, p. 123.
The fairly restricted use of proximal demonstratives as either deictic or self-referential has some interesting consequences for the understanding of two other passages with zin. The dedicatory inscription of İSKENDERUN covers a tongue-shaped stone which Hawkins (CHLI, pp. 259, 260) identifies as a ceremonial mill-stone. The expression HORDEUM.SCALPRUM-na (or *179.SCALPRUM-na) in § 1 may very well denote a mill-stone, but I doubt that this word is the “internal reference to the monument itself.”17 The defining feature of linguistic self-reference is the presence of a proximal demonstrative. The absence of za- in § 1 therefore speaks against the identification of our stone object with a mill-stone. On the other hand, the proximal demonstrative modifies another object in § 4:

8 (I brought this granary,)

wali-tu-u-ta-^i 4xMILLE 4xCENTUM a-ta (“CAPERE”)|lu-pa-ha |zi-i-na
(“*256”)|zi-pa-ta-na-ti

and I brought four thousand four hundred (measures of grain) into it, by this
zipatani-measuring tool (= scoop?).

The use of proximal za- with “zipatani measuring tool” either means that the object was in the immediate vicinity of the inscribed stone or it refers to the stone object itself. Considering the shape of the object and the fact that the logogram *256 points at stone, I prefer the latter option19.

15KARKAMIŞ A6 § 27, end 9th-early 8th century B.C.; CHLI, p. 125.
16KARKAMIŞ A 6 § 30, end 9th-early 8th century B.C.; CHLI, p. 125.
17Hawkins, CHLI, p. 260.
18İSKENDERUN § 4, late 9th century B.C.; CHLI, p. 259.
19Hittite zipaddan(n)i is a small container for fluids or less-than-solid substances such as oil, lard, butter and honey (Harry A. Hoffner, The Hittite Laws: A Critical Edition (Documenta et Monumenta Orientis Antiqui 23). Leiden: E. J. Brill 1997, p. 144 n. 506). On the unclear position of zipaddani within the system of volume measures, see Theo P.J. van den Hout, “Maße und Gewichte. Bei den Hethitern”. Reallexikon der Assyriologie und der Vorderasiatischen Archäologie, hrsgb. von D.O. Edzard. Band 7 Lfg.7/8, 1990, p. 525. Grain, which as a mass has no shape, can easily be included in the group of fluids or semi-fluids. The shape of the stone object from İSKENDERUN, flat on one side and curved on the other, suggests that the zipattanni is not a bottle or some other kind of container but a scoop. This meaning fits well with products like lard, butter or grain, which are more easily measured by means of a scoop than by a bottle.
The other text-passage that needs to be reinterpreted is SULTANHAN § 12 (ex. 2, repeated here):

9 | wala-na- | lá-pi-i | ži-na | “AVIS”(-)ta-wali-na-ri+i | l(“PES”)u-pa-ha
   I rededicated him with this “AVIS”-ta-wali-ni-.

The hapax AVIS(-)tawani- cannot denote a bird-offering as suggested by Hawkins (CHLI, pp. 466, 469), but must either be the inscribed object itself or a tangible and rather permanent entity in the vicinity of the stele, just like the once present statue of Tarhunzas (§§ 2, 17) or the vineyard which is protected by this Tarhunzas (§ 22). The stele itself is probably represented by the lexeme armanza in § 46\textsuperscript{20}. In all, this does not leave much room for a fourth object or location called AVIS(-)tawani-, especially since only the deity, the vineyard and the armanza “standing stone (?)” are referred to in the curse section (the deity probably in the missing lines of base side A, the vineyard in § 34 and the armanza in § 46). On the other hand, unlike the statue of Tarhunzas, the vineyard and the AVIS(-)tawani-, the armanza does not appear in the dedicatory section. Should we consider AVIS(-)tawani- as an alternative expression for armanza to solve this incongruency?\textsuperscript{21} Whatever the solution, the presence of za- “this” means that AVIS(-)tawani- is a permanent object instead of a bird-offering.

ALEPPO 2 § 12 possibly contains adnominal zin:

10 | mu-pa-wali | ŉ-x-x-x | żi-i-x-x | l|BONUS-sa₃+rali-ti | lDARE-tá²²
   Because of this (?) goodness (of mine) he gave to me ...

Thus far zin appeared as an adjective. The majority of zin-s however (11 attestations) occurs in the correlative sequence zin ... zin (..., zin), with the exception of İZGİN 2 § 5 which has apin ... zin instead (see ex. 23). For the two independent zin-s see exx. 16 and 17. The sequence zin ... zin (..., zin) is the exact equivalent of the Hittite expression kez ... kez (..., kez) (ex. 11). Since kez is the ablative of the proximal demonstrative ka-, this correspondence further supports the analysis of zin as ablative.

11 [ nu=mu kez URU Sunap]assis kezza=ma=mu ¹⁸ URU Isdupistas kez=ma=mu [LÜ.MEŠ URU Pittagalaissa Ş]EŠ.MEŠ LÜ.MEŠ URU Malazziya=pat²³
   [At one side of me was (the town of) Sunap]assi, on another side of me (the town

\textsuperscript{20}The form a+rali-ma-za can be analyzed as the neuter participle of *a+rali- = /ar-l- “to stand”. The participle “standing entity” is then easily transformed into “standing stone, stele”.

\textsuperscript{21}It is possible to bring “AVIS” tawani- within the semantic field of arama(n)za “standing entity” if we may equate “AVIS” tawani- with CLuwian dawanali- “stalk, stem (?)” (H. Craig Melchert, Cuneiform Luvian Lexicon. Chapel Hill, 1993, p. 225), which in turn receives its meaning from the assumed equation with Hittite dawani- “Stamm, Stab (o.a.)” (Johann Tischler, Hethitisches etymologisches Glossar, III/9 (T, D/2) p. 287). It still remains difficult to establish a connection with the tawani-apartments of KARKAMIŠ A11a § 19 (CHLI, p. 96, 99).

\textsuperscript{22}ALEPPO 2 § 12, late 10\textsuperscript{th} - early 9\textsuperscript{th} century B.C.; cf. Hawkins, CHLI, p. 236, 238, who presents a different analysis of zi-i-x-x as the object of “give”.

\textsuperscript{23}KBo 19.76 + KUB 14.20: 17'-18' (NH, CTH 61 II).
of) Isdupista, (and) **on a third side** of me [the inhabitants of (the town of) Pittsburghasa, brothers of in fact the inhabitants of (the town of) Malazzia.

12 “MANUS” (-)la-tarai-ha-ha-walí | á-TANA-walí-za(URBS) | “TERRA+X” (-)wali-rali-za |zi-na | (“OCCIDENS”)i-pa-mi²⁴ | VERSUS-ia-na |zi-pa-walí (ORIENS)ki-sa-ta-mi-i | VERSUS-na²⁵
And I extended the Adanawa plain **on one side** towards the west and **on the other side** towards the east²⁶.

13 (The gods caused my name to cross the border.)
§ 4 wali-ma-ta₃ |zi-i-na | (“MI.REGIO”)mi-rai(URBS) |AUDIRE-MI-ti-i-ta
§ 5 zi-pa-wali+raliڃ₄⁴⁷₅-la(URBS)-i | AUDIRE+MI-ti-i-ta
§ 6 zi-i-pa-wali-i | mu-sa-za(URBS) mu-sa-ka-za(URBS) su+rali-za-ha(URBS) AUDIRE+MI-ti-i-ta²⁷
And men heard about it, about me, **on the one side** in Egypt, **on another side** they heard about it in Babylon(?), and **on the remaining side** they heard (about it) among the Musa, the Muska and the Sura²⁸.

Although the overall meaning of the next example is far from clear, the correlative pair **zin…zin** refers to both sides of a river:

14 § 7 ‘wali³-ta FLUMEN-pi-na | (“PES₂”)hi-nu-ha (COR)á-ta₃(⁻)na₁-sa₁-ha
§ 8 wali-ta |zi-na FLUMEN-pi-na (“PES₂”)hi-nu-ha
§ 9 zi-ha-wali-ta FLUMEN-pi-i-na (“PES₂”)hi-nū-ha²⁹
And I caused even (-ha) the alasana(-) to cross the river: I caused (them) to cross the river **on one side** and I caused (them) to cross the river **on the other side**.

The following considerations have led me to the readings and translation presented above. The causative verb (PES₂)hịnu- “to cause to cross, pass” occurs in two different constructions. This verb is either accompanied by a double accusative or by an accusative and dative-locative. If one wishes to express that an object, expressed as an acc., crosses or passes a location, the location that is to be crossed or passed is also expressed as an acc. This

²⁴ KARATEPE Ho. § V: zi-na (“OCCIDENS”)i-pa-mi
²⁶ The Phoenician expression l-m-ms’smš w-‘d mb’y is different in phrasing and syntax but similar in intention: “to-from-rising sun and-towards entry-its” > “from east to west”.
²⁷ KARKAMIŞ A6 § 4-6, late 9th - early 8th century B.C.; CHLI, p. 124.
²⁸ I prefer the translation “on this side … another side … the remaining side” instead of the more abstract “on one hand … the other hand, … the other hand” because the countries mentioned in these lines surround Karkamiş on all sides: Egypt to the south, Babylon to the east, and the Lydians, Phrygians and Urartians to the north in Anatolia.
²⁹ KARKAMIŞ A15b §§7-9, late 9th - early 8th century B.C.; CHLI, p. 131.
double-accusative construction requires the local sentence particle -ta. But if the goal of the movement is expressed instead of the location to be crossed, the goal appears in the dat.-loc.; in that case the sentence particle -ta is not present.

The clauses §§ 7, 8 and 9 contain the acc. FLUMEN-pi-na “the river” and -ta in the particle chain. The river is either the acc.-object of (PES2)hinu- or the location crossed over. If the river is an acc.-object, it either should be made to pass to a goal (in the dat.-loc.), or the river should be made to cross a location (in the acc.). The presence of the particle -ta excludes the first option, but the second option is impossible as well. Although grammatically correct, it makes no sense to make a river cross something. What does make sense however is to make something cross a river. The river is therefore the ‘locatival’ acc., accompanied by particle -ta; we now only need the acc.-object. I believe that this object can be found in the sequence read by Hawkins (2000: 131) as (X')d-ta(ls)a-na-ha, which is either the acc.sg.c. of (X')d-ta(-)lsa-na- or the nom.-acc.pl.n. of (X')d-ta(-)lsa-n'. This leads to the following translation: “And I caused even the ata-san( a)- (or ala-san(a)-) to cross the river”.

Recently Theo van den Hout discussed several lexemes that are determined by the logogram VAS/COR (*341). He has shown that this logogram originally determines two different but related lexemes, among others: (COR)(a)tra/i-/atla/i- c. “person” and (COR)tan(i)- c. “soul”. The sign in KARKAMIŠ A15b §7 read by Hawkins (CHLI, p. 131) as (X') is, although damaged, quite similar to *341 in (“COR”)a-tara/i-ina in the same inscription (§ 11). If we also read ta, as la, we are left with (COR)alasana-, c. or (COR)alasan-, n., which might either denote a mental notion or a bodypart associated with mental notions.

Independent zin is also attested with the verb (PES2)hi-nu- with a dat.-loc. and without the particle -ta in KARKAMIŠ A24, fragments 19+19b. The parallel clauses would call for another zin (zi-na) in the first clause, but the remnant of the sign preceding l*417.ANIMAL is too vague to decide whether it is indeed part of the sign na:

15 ...Jx l*417.ANIMAL FLUMEN-pi-i “PES2’(-)hi-nú-[ha]”

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30 KARKAMIŠ A6 § 3: the acc.-object is “my name”, the location to be crossed is “the border”; KÖRKÜN § 3: the acc.-object is “me”, the ‘location’ to be crossed or transgressed is “the lord’s command.”
31 KARKAMIŠ A6 § 2, the acc.-object is “my name”, and the goal is “heaven”; KARKAMIŠ A24 fragm. 19+19a: the acc.-object is the *417. ANIMAL, goal is “the river”.
32 In Hittite the acc. of ‘traversed space’ is accompanied by -kan, the functional equivalent of Luwian -tta (Jacqueline Boley, Dynamics of Transformation in Hittite: The Hittite Particles -kan, -asta, and -san. (Innsbrucker Beiträge zur Sprachwissenschaft 97). Innsbruck 2000, pp. 294-295). But unlike in HLuwian, the goal in Hittite would require -kan as well.
33 Unless the author claims that he diverted the river on three different sides of the location of the inscription. This would have been a major achievement, even by modern standards.
35 For the other lexemes see van den Hout, FsPopko, p. 176, with references.
36 Van den Hout, FsPopko, p. 186. We might consider equating one unknown with another unknown and adduce CLuwian alašša/i- “?” (Melchert, LuvLex p. 8).
Izi-ha-wali-’ *417. ANIMAL FLUMEN-pi-i “[P]ES₂(-)hi-[nu-ha]" [On one side (??)] [I made the *417.ANIMAL pass to the river, and on the other side [I made] the *417.ANIMAL pass to the river.

And finally, substantively used zin occurs twice as an ablative of separation (although the sentence meaning of the AŠŠUR attestation remains rather unclear):

16 (Also, send me a woman (for) waspa-/a woman’s waspa.)
zi-pa-wali-na |(“69”)sa-na-tu
Let them seek for her/it from here.

17 zi̇̄-pa-wali |FLUMEN-pi |ARHA PES₂(-)za-na-ha DEUS-’ni₂̄-zi
And I …ed the gods away from here to the river.

There remain one, possibly two instances of zin in broken context: MALPINAR § 9 zi-i-wali [ and KARKAMIŠA 16a § 3, which should be read as either ]x REL₂-na-’ REL₂-na’ |DEUS-ni-i-na li-zî-i-ti or ]x zi-na-’ zi-na-’ |DEUS-ni-i-na li-zî-i-ti (CHLI, p. 191).

3. The demonstrative ablative apin

The non-proximal deictic or anaphoric equivalent of zin is apin. The demonstrative apin is usually interpreted as a temporal demonstrative adverb “then” or as a locative adverb “there.” Only once we find apin paired with zin “there/on that side … here/on this side” (IZGİN 2 §§ 4-5). This is also the only case in which apin occurs as an independent form; in all other cases apin is followed by an ablative noun (KARKAMIŠ A11a § 11, 11b+c § 14, A12 § 14, A23 § 6). This observation in itself provides a strong indication for the ablatival status of apin.

The demonstrative apa- can be used to refer to an object or location in the non-textual world at a certain distance from the deictic center (see section 5 for a possible instance in the AŠŠUR letters). In almost all instances however, apa- is used as an anaphoric emphatic pronoun or adjective. In other words, apa- mainly refers backwards within the text. This is also the case in KARKAMIŠ A11b+c where *a-pi-i-na |REGIO-ni-ia-ti “those countries (abl.)” in § 14 refers back to *a-pa-ia |REGIO-ni-ia “those countries (acc.pl.)” in § 11-12.

37 KARKAMIŠ A24 frags. 19+19a, late 9th - early 8th century B.C.; CHLI, p. 138.
38 AŠŠUR e § 19, late 8th century B.C.; CHLI, p. 536.
39 One could also read za here although the reading zî/-zin/ makes contextually more sense than za[n] (acc.sg.) (Hawkins, CHLI, p. 254). On the other hand, /zan/ might be a rare variant of /zin/, as I will argue for AŠŠUR a § 6 (ex. 27).
40 MARAŞ 8 § 8, early 10th century B.C.; CHLI, p. 253.
41 Hawkins, CHLI, p. 95, 103, 114, 119; Payne, Hieroglyphic Luwian, p. 27; Plochl, Einführung, p. 85.
42 Hawkins, CHLI, p. 98, 370; Payne, Hieroglyphic Luwian, p. 27.
43 The two remaining instances of pin are less than certain: ANCOZ 4 § 2 p[i³]-na[… (late 8th century B.C.); TELL TAYINAT 2 frg 1b § iii ’pi³-ha-wali-t-[ā] (DEUS)SOL[ (8th century B.C.).
(They i.e., the gods) marched before me and I wasted those countries. I brought in the trophies.

\[18\] \texttt{a-wa/i \textit{a-pi-na} |\textit{REGIO-ni-ia-ti} (FULGUR)pi-ha-mi-sa SUPER+rali-a \textit{IPES-}wa/i-i-ha} \footnote{KARKAMIŠ A11b+c § 14, late 10th-early 9th century B.C.; CHLI, p. 103.} \\
and glorified I came up \textbf{from those countries}.

The phrase \textit{a-pi-na} VIA-wa/i-[ti] “that campaign, abl.” in KARKAMIŠ A12 § 14 occurs in a broken but similar context. Although the word VIA-wa/i- “road, expedition, campaign” itself is not mentioned before, the actions of war described in §§ 2-7\footnote{“[To those fields my fathers] and forefathers had not marched, but the gods Tarhunzas, Karhuhas and Kubaba \textit{walked} (?) before me, and I \textit{carried} in the chariot(ry), and I took […] I wasted the river-}land of the city Sapisi, and the walls/fortresses of the city Awayana I …-ed down with 100 …” (CHLI, p. 113). certainly qualify as an antecedent for the phrase \textit{a-pi-na} VIA-wa/i-[ti]:

\[19\] \texttt{a-w[aiJ \textit{a-pi-na} VIA-wa/i-[ti] “FUL[GUR]”-ha} \footnote{KARKAMIŠ A12 § 14, late 10th-early 9th century B.C.; CHLI, p. 114.} \\
Glorified […] \textbf{from that campaign}.

The remaining two instances of adnominal \textit{apin} occur in comparable contexts. In both cases the abl. noun phrase \textit{a-pi-na LINGERE-(ha- )sa-ti} “those good events/that (divine) favor” (usually translated as “luxury”\footnote{J. D. Hawkins and A. Morpurgo-Davies, “On the Problems of Karatepe: The Hieroglyphic Text”, Anatolian Studies 28 (1978), p. 106; Hawkins, CHLI, p. 59.}) refers back to the immediately preceding clauses describing the divine favors bestowed upon the author Katuwas:

\[20\] (My lord Tarhunza, Karhuha and Kupapa loved me because of my justice, wherefore they made my father’s and grandfather’s lands mitasari- for me, and [they brought forth] for me the Grain-God and the Wine-god.) \texttt{a-mu-pa-wa/i \textit{a-pi-na} LINGERE-sa-ti kar-ka-mi-si-za} \footnote{KARKAMIŠ A11a § 11, 10th-early 9th century B.C.; CHLI, p. 95 “But I myself then \textit{constructed} (?) the temple(s) with luxury for Karkamišean Tarhunzas”.} \\
\texttt{kar-ka-mi-si-za} \footnote{Hawkins (CHLI, p. 98) notices a possible correspondence between \textit{apin} in A 11a § 11 and \textit{zala} in A2+3 § 9. Although these clauses indeed describe how the speaker builds temples for the deity, there is a subtle difference. In A11a § 11 the speaker builds temples ‘because of the divine favour’, but in A2+3 § 9 he builds the temples ‘out of goodness in return (= zala)’ (*a-mu-pa-wali-tu lza-ia (DEUS)TONITRUS-sa DEUS.DOMUS-ta |BONUS-sa<-rali>-ti-i za-la *261.PUGNUS-ru-ha “and I \textit{constructed} these temples of Tarhunzas for him with goodness in return”). In A11a § 11 the ablative noun phrase denotes the ‘divine goodness’, in A2+3 § 9 it denotes ‘speaker’s goodness’. This is why A2+3 § 9 can add ‘in return’ to emphasize the reciprocal nature of the building activities. For \textit{zala} as “in return, umgekehrt”, see Frank Starke, Untersuchungen zur Stammbildung des keilschrift-}
By adjoining the demonstrative apa- to LINGERE-ha-sa-ti, this word must now refer to an antecedent noun or preceding stretch of discourse. The term “luxury”, if understood as abundance, might still refer to the agricultural wealth in KARKAMIŠ A11a, but this cannot be the case in KARKAMIŠ A23 § 6 (ex. 21). I therefore suggest a more abstract meaning such as “good/positive events, (divine) favor” for LINGERE-ha-sa-, which finds support from the Phoenician equivalent mn 'm in KARATEPE § VI and XXXVI. The translation of mn 'm as “luxury” gives the impression that this meaning is well-established for Phoenician. This is not the case: the noun mn 'm does not occur outside KARATEPE and is furthermore only attested once in Biblical Hebrew where it is translated with “friandises, Leckerbissen, dainties” (Ps. 141: 4). This contextually established meaning is sometimes used to arrive at “fine food, dainty” for Phoenician mn 'm. Most scholars however derive mn 'm directly from n 'm “good, fortune” by means of the prefix m-. One of the functions of this prefix is to derive abstract nouns from its base. We therefore find the following translations for mn 'm: “prosperity”, “something like “pleasure”, “good things”, “well-being”, “bien-être”, “welfare”, etc. etc.

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50 KARKAMIŠA23 § 6 (+) A26a1+2 § c, 10th-early 9th century B.C.; Hawkins, CHLI, p. 119 gives the following translation, without join: “And I myself then [constructed (?)] these [buildings (?)] with luxury”.


53 Hoftijzer and Jongeling, DNWSI, p. 738.


In the next example *pin* functions adverbially as an ablative of cause:

22 § 7 *wali-mu-ta á-mi-zi arali-i-zi na ha[-si-ta] ll
§ 8 [d-mu-pa-]wali-mu-ta (FEMINA)arali-na |*piə-na (COR)ha-si-ha\(^61\)
[They did] not re[call (?)] my times on my behalf. **Therefore [I]** recalled (?) my time.

The final example probably contains the correlative pair *apin ... zin* “there/on that side ... here/on this side”:

23 § 4 *a-wali-tá *a-pi-[na] ll [...]286-wali-ni-zí(URBS) FINES+ha-zí POST-ní ll
a-tá i-zí-i-tá
§ 5 *zi-pa-wali-ta hi?-li-ki-llzi(URBS) FINES+ha-zí POST-ní a-tá i-zí-i-tá ll\(^62\)
**On that side** he added the frontiers of the city ..., **on this side** he added the
frontiers of the city Hilikki.

The expression *apin ... zin* is probably not the equivalent of the more common deictic sequence *zin ... zin* (...) discussed above (contra Hawkins CHLI, p. 318). Lack of context prevents a final judgment, but it seems that this unique occurrence of *apin ... zin* corresponds with the equally rare use of *apez ... kez* “on that side ... on this side” in Hittite.

Hittite “on this side ... on the other side” is usually expressed by means of Old Hittite *edi ... ketk* ... *edi* or post Old Hittite *kez ... edez/edez ... kez*. It is very important to note the difference between *kez ... kez* and *edez ... kez/kez ... edez*. Only the latter expression contains a distinction between the near side and the far side of the speaker, but if this distinction is not important or if different sides of the speaker or deictic center are referred to, *kez ... kez* is used. This is the case in Hittite ex. 11 and the HLuwian exx. 12 and 13 (exx. 14 and 15 lack context). In the following example on the other hand, the speaker is referring to the near side and the far side of a point of reference, the river, which does not coincide with his own position:

24 § 48 [ta]kku ARAD-as ḫuwāí n=an āppa kuisi uwatezzi takku manninkuwan *ē[pzi] 49 nu=sse SIR-us pāi takku ÍD-az 2 GĪN KU.BABBAR pāi \(^50\) edi ÍD-az nu=sse 3 GĪN.KU.BABBAR pāi\(^63\)
If a male slave runs away and someone brings him back, if he captures (him) nearby, he gives him shoes. If (he captures him) on **this side** of the river, he gives 2 sheqels of silver. If (he captures him) on **that side** of the river, he gives him 3 sheqels of silver.

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61 KARKAMIS A 5a § 7 - § 8, 8th century B.C.; CHLI, p. 182.

62 iZGiN 2 § 4 - § 5, 11th-10th century B.C.; CHLI, p. 316, 318.

Additionally, the locative adverbs *edi* or *edez* always refer to locations that are not mentioned before. But when the area located at the other side of a point of reference, such as a river, mountain range or person, is either mentioned before or implied in the discourse, *edi* / *edez* are replaced by anaphoric *apiya* in Old Hittite and *apez* in post-Old Hittite, and not by *ket* ... *ket* or *kez* ... *kez*:

25 § 7 [LÜ] ^U^R^U^TASSI LUGAL-i menahhanda zahhiya uit ^[n=a]n^7^m^Li-KASKAL-is mazze nu *apiya* takkalit ^[^k]ēd=a^ LUGAL-us takkalit64

[The man] from Hassi went on campaign against the king. Lipalsi withstood [him]. He closed on? (him) **on that (= his) side**, while the king closed on? (him) **on this side**.

The ‘other side’ is not simply beyond the point of reference, the enemy, it is also connected with the location of Lipalsi who has just been mentioned. Therefore the adverb *apiya* has an anaphoric connotation which is completely absent from the meaning of *edi* / *edez*. This is also illustrated by the next example where *apezza* refers to an anaphorically colored ‘other side’:

26 § 31 uit=ma ^LÜ^KÜR [(Pisburus anda āras)] ^U^R^U^Karahn[(a)s]=a ^32^U^R^U^Maristas Š[(Ā ^LÜ^KÜR)] ēsta (nu=ssi *apēz* ^LÜ^KÜR ^U^R^U^Taqqast)as ZAG-as ēsta ^33^ kēzza=ma=ssi [(^U^R^U^Talmaliyas ZAG-as ēs)]ta65

Thereupon the enemy of Pishuru barged in and the cities Karahna and Marista [were] in the midst of the enemy. **On the other (= the enemy’s) side** the country Taqqasta was its border, but **on this side** Talmaliya was its border.

Since the use of Luwian *zin* ... *zin* is similar to the use of Hittite *ket* ... *ket* / *kez* ... *kez*, I infer that the use of *apin* ... *zin* is the equivalent of *apiya* ... *ket* / *apez* ... *kez*. If it were the equivalent of *edi* ... *ket* / *edez* ... *kez*, the reference point should be present in the clauses containing *apin* and *zin*, just as ‘the river’ is the point of reference in ex. 24. The absence of such a reference point in ex. 23 means that *apin* is used anaphorically66, like *apiya* and *apez* in exx. 25 and 26, although the antecedent is difficult or even impossible to find in view of the pitiful state of the inscription.

64 KBo 7.14 + KUB 36.100 obv. 7-9 (OS, CTH 15).
66 If the reference point were present in these two clauses we would probably have evidence for a HLuwian binary demonstrative system consisting of *za*—‘this’ and *apa*—‘that’, because only in that case *apin* might non-anaphorically refer to the ‘other side’. As it stands now, our anaphoric *apin* is allowed both in a binary and a ternary demonstrative system. This still allows the possibility that Luwian contains a third term comparable to Hittite *aši*, which is accidentally not attested in the corpus of Hieroglyphic (and Cuneiform) Luwian texts.
4. Geographical and chronological distribution

The demonstrative ablatives *zin* and *apin* appear from west to east and from north to south, and from the earliest to the latest texts. There is therefore no restriction regarding place or time:

<table>
<thead>
<tr>
<th>Location</th>
<th>11th-10th</th>
<th>1.10th-e.9th</th>
<th>1.9th-e.8th</th>
<th>m.8th</th>
<th>1.8th</th>
<th>e.7th</th>
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<tbody>
<tr>
<td>Malatya (Izgin)</td>
<td>zi-C</td>
<td>*a-pi-[na]</td>
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<tr>
<td>Tabal (Sultanhan)</td>
<td></td>
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<td>zin-a</td>
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<td>Commagene (Ancoz)</td>
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<td>Cilicia (Karatepe)</td>
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<tr>
<td>Gurgum (Maras 8, 14,</td>
<td>zi-C</td>
<td></td>
<td>zin-i-na</td>
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<td>Iskenderun)</td>
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<tr>
<td>Amuq (Tell Tayinat)</td>
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<tr>
<td>Kargamis (A5a, 6,</td>
<td>*a-pi-(i-)na</td>
<td></td>
<td>zin-(i-)na</td>
<td>zin-(i-)C</td>
<td>pi-na</td>
<td></td>
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<tr>
<td>11b+c, 12, 15b, 23, 24</td>
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<tr>
<td>Tell Ahmar (Aleppo 2)</td>
<td>zin-i-x-x (??)</td>
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<tr>
<td>Assur</td>
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<td></td>
<td></td>
<td></td>
<td>zin-C</td>
</tr>
</tbody>
</table>

Figure 3 - Geographical and chronological distribution of *zin* and *apin*

5. Formal analysis and possible etymology

After the functional analysis of *zin* and (*a)pin in the previous sections, I will now try to delve into a formal analysis.

The first explanation that comes to mind is nasalization\(^67\) as attested for REL-i-ta(-na) /kwida(n)/ “wherever”, etc., but also for CLuwian *apati(n) “thus” and *kuwati(n) “as, how?”\(^68\). If *zin* and *apin* are nasalized forms of *zi* and *api* respectively, we should find the latter two forms with ablatival, instrumental or adverbial function. This is indeed the case for *zi* (see ex. 6 lzi-i-pa-wali; ex. 12 lzi-para-wali; ex. 13 z1-z1-ursi-wali/ra/zi-i-pa-wali-'; ex. 14 lzi-ura-wali-ta; ex. 15 lzi-ura-wali-'; ex. 16 Zi-pa-wali-na; ex. 17 Zi-pa-wali). However, the distribution of *zi* before the consonants of the conjunctions -ha and -pa versus *zin* in all other environments points at *zin* in all instances. The lack of *zi* in other phonological environments speaks against the nasalization hypothesis.

For *api - apin* we would have to adduce the amply attested *api*, but T. Oshiro\(^69\) has already analyzed this adverb as /appi/ “back, again”, cognate of Hittite *appi*. Even if one were to reject Oshiro’s findings and reclassify *api* as somehow belonging to the

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\(^69\) Terumasa Oshiro, “*api* in Hieroglyphic Luwian”, *ArOr* 56/3 (1988), pp. 246-252.
The Hieroglyphic Luwian demonstrative ablative-instrumentals

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demonstrative *apa-, we still would like to find freestanding *api in ablative or instrumental contexts. This is clearly not the case.

In short, we have to accept the reality of the functional abl.-instr. *zin and *apin, but how does this relate to the expected formal pronominal abl.-instr. ending -ati? One thing is obvious, our forms on -in do not belong to any pronominal paradigm. Instead, I would like to suggest that -(i)nt might be the reflex of a PIE adverbial ending *(i)m.

G. Dunkel has collected evidence from Greek, Latin and Hittite to build a case for an ending “of the form *m with instrumental and ablative functions, found primarily in adverbs and extraparadigmatic forms” (Delbrück, p. 73). He mentions for example the Latin demonstrative adverbs *illim and *istim, with ablative function (o.c. 67) and the Homeric Greek adverbial ending -mev which is exclusively ablative in function (o.c. 68). Dunkel further cites instrumentals in *-im, such as the Latin instrumentals of time *ōlim and *interim, and the instrumental of route *utrimque “on both sides” (o.c. 77-78).

Final Proto-Anatolian *-m becomes -n in Luwian. We therefore may add *zin and *apin without difficulties to the list of ablatives and instrumentals in *-(i)m. The ending of *zin and *apin is either -in (reflex of *-im) or -n (reflex of *-m). An ending -n instead of -in is possible in view of the fact that *zi6i6i occurs besides *zi6i6i “here” and that *api- is attested as an alternative stem for *apa. We might further adduce AŠSUR a § 6 as evidence for the ending -n, added to the stem za- instead, if the following analysis is correct:

27 (You by no means dictated a letter to me.)
\|NEG2-a-wal | ilar-i-pa'-mi-i-sa  \|za-na  \|a-pa-ha (“PES₂”) a+ra/i-ta-‘  \|ka+ra/i-mi-sa(URBS)

Did not even (-ha) Tarpamis come from here to there (to you), to Kar(ka)mis? ((So) why did you/he by no means send me the atuni?)

The forms *zan and *ap(n) are usually analyzed as acc.sg.comm. expressing time, “now and then”. If we may isolate a pronominal abl.-instr. -n instead of -in, *zan could be an

71 Dunkel treats man and mahān as adverbs of manner, hence as instrumentals on -ām, and not as accusatives (Delbrück, p. 73). For duwan “far” and peran “in front” as instrumentals see p. 71-72.
72 M. Lejeune (Les adverbes grecs en -εν (Publications de l’Université de Bordeaux, 3.). Bordeaux: Delmas 1939) already reconstructed a Latin adverb *im “de là” (p. 394) and a PIE adverb *en “à partir de là” (p. 404).
73 The Hittite equivalents are the lateral instrumentals kert “on this side” and šiet “on one side”.
75 Nom.sg.c. *a-pi-sa (TELL TAYINAT 2 line 2 fr 6, line 4 fr 10b-a), acc.s.comm. *a-pi-na (TELL TAYINAT 2 line 5 fr 10a-b § ii), *a-pi-pa-… (HAMA 4 § 9, if this is indeed an acc. and not the local adverb /appi/), nom.pl.comm. *a-pi-zi (TELL TAYINAT 2 line 1 fr 2a § ii), acc.sg.comm. of the gen.adj. *a-pi-si-na (HAMA 4 § 5). See Plöchl, Einführung, p. 70.
76 AŠSUR a § 6, late 8th century B.C.; CHLI, p. 534, 542.
ablative of separation “from here”. In that case, *apa* should mean “to there”\(^78\) with reference to the Addressee. The reference to the Addressee (“to there where you are”) is trivial in a binary demonstrative system (in which the non-proximal term refers to non-first persons and/or large distance). Alternatively, *apa-* may be the second term in a ternary demonstrative system, like Hittite *kā-, apā-, aṣi*\(^79\). Irrespective of the semantics of the demonstrative *apa-*, we may take *apa* here as purely deictic, as referring to the location of Addressee in the real world.

Understanding *zin* and *apin* as adverbial forms that became included in the pronominal paradigm leaves room for vestigial remains of an original pronominal abl.-instr. *-ati*, as in REL-*a-ti* in BOYBEYPINARI 2 § 4ab, noted by Melchert (*Luwians*, p. 191 n. 19). Treating REL-*a-ti* as a subordinating conjunction “how” (Hawkins, CHLI, p. 336) instead of as an interrogative modifier of the abl.-instr. *hu-pi-tā-ta-tā-ti* (Melchert (l.c.)), does not affect the formal analysis because REL-*a-ti* as “how” certainly derives from “in what way”, i.e., an instrumental of manner. What is important on the other hand is whether this abl.-instr. still functions within a pronominal paradigm (Melchert’s solution) or within an adverbial paradigm as a conjunction (Hawkin’s solution). I opt for the latter in view of the far older CLuwian conjunction *kuwati(n)* “as, how?” (Melchert, *LuvLex*, p. 117)\(^80\).

To conclude, I surmise that the HLuwian abl.-instr. ending *-(i)n* (< PIE *-(i)m*) originally belonged to an adverbial paradigm. Already at the beginning of the first millennium *-(i)n* replaced the original pronominal abl.-instr. ending *-ati*, still attested in REL-*a-ti*. CLuwian evidence suggests that the pronominal abl.-instr. ending *-ati* was already included in the adverbial paradigm in the second millennium. It still needs to be established if and in what way the CLuwian adverbial instr. (?) *zand/ta* competes with CLuwian adverbial *-ati*, and the relation of all these Luwian forms with Hittite *ket, kez, kedand/ta* and the other Hittite demonstratives.

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\(^{78}\) If *zan* means “from here”, we might treat *apa* (instead of *apan*) as a directional demonstrative adverb. I will not go into the consequences of this view here, but one would need to take into account the Hittite local adverbs ending in *-n* and *-a*. Dunkel, *Delbrück*, p. 71, already treats adverbs like *peran* as instrumentals, while José Luis García Ramón claims the same for the local adverbs on *-a* (“Adverbias de dirección e instrumental indoeuropeo”, *Delbrück*, p. 139).


\(^{80}\) The conjunction *kuwati(n)* is probably the old abl.-instr. of the interrogative stem (*contra* Melchert (*LuvLex*, p. 117-118)).