Decliticization in Old Estonian*

Joel A. Nevis

1. Introductory Remarks

Agglutination is a universal diachronic process among the languages of the world. As one of the oldest and best-known theories of the genesis of affixes, it has been used widely as a method of reconstructing word order — as in Givon's (1971) well-known slogan "Today's morphology is yesterday's syntax." Givon's methodology has been constrained by some (e.g. Anderson 1980, Comrie 1980, and others) and has been refuted by yet others. In general, though, linguists have accepted the agglutinative cycle of words, whereby affixes are historically former words which have lost their independence and cliticized onto a neighbor, inevitably later fusing into the host as an affix.

According to Givon's principle, an affix continues the positioning within the word that its word source had within the phrase. Comrie points out by way of criticism that some clitics exhibit a special attraction to the position after the first constituent of a clause — a positioning not shared by full words. However, I have argued that these clitics are phonologically dependent syntactic words (Nevis 1985a); in addition, examples of full words occupying this "second position" slot are not uncommon (Nevis 1985a, Wackernagel 1982). The clitics in question are generally sentential in scope (Kaisse 1985), and are called 'second position' or 'Wackernagel-type' clitics. Second position clitics have a peculiar resistance to completing the agglutination cycle, so that Comrie's remarks are not to be rejected out of hand after all.

In Baltic Finnic one finds several Wackernagel-type clitics that have been diachronically stable. Interrogative $*\underline{ko}$, informal $*\underline{s}$, and emphatic $*\underline{pa}$ exist in most BF languages today as clitics, and continue that status from the parent language, Late proto-BF. In Estonian these morphemes have been lost as clitics, but instead of becoming affixes, they have either decliticized into seperate words or disappeared altogether.

1.1. On the Agglutination Hypothesis

I adopt here the terminology of Jeffers and Zwicky (1980). By cliticization I mean the reanalysis of a word as a clitic. Decliticization is the reverse metanalytic reinterpretation of a clitic as a word. Affixation is intended here to be a diachronic process: the reanalysis of a clitic as an affix. Conversely, deaffixation is the change from a former affix to a clitic.

- (1) a. WORD > CLITIC > AFFIX cliticization affixation
- (2) a. WORD < CLITIC < AFFIX decliticization deaffixation

Examples of the agglutination cycle (i.e. (1) above) are numerous. Examples of loosening (i.e. (2) above) are rare. One such example can be found in Janda (1981), who examines the history of the English genitive marker 's, arguing that it is a clitic in Modern English with a source in Old English as an affix.

Janda argues that deaffixation in this instance came about in Middle English through the homophony of genitive —es and unstressed pronoun (h)ys 'his', e.g. my moder ys sake (see Janda 1981 for more examples and details of the analysis). Janda also suggests that, had it not been for this homophony and deaffixation, Middle English would have lost genitive —es along with all the other case endings (as has happened in the Northern British dialects — Janda 1981:fn.4). Janda's analysis is not uncontroversial; Carstairs (1985), for example, has an alternative account of deaffixation in Middle English.

Jeffers and Zwicky (1980) likewise offer an analysis from reconstructed particles in Proto-Indo-European that putatively falsifies the "tacit assumption that that clisis is invariably one stage in an inexorable development toward the status of an affix or toward ultimate oblivion". Actually there is no evidence to prove the clitic status of the particles in their example — Second Position cannot be used as an indication of clitichood here (Nevis 1985a). Even Wackernagel (1892) acknowledged the availability of this slot for unstressed words in general (what he called quasi-enclitics).

Nevis (1985b) offers an instance of both deaffixation and decliticization of an inflectional morpheme in Northern Lappish.

There are other examples of deaffixation and decliticization in the literature, but these usually involve changes in the lexicon (i.e. they are derivational morphemes). Several these examples are discussed by Vesikansa (1977) for Finnish. A common example in many parts of Europe is the decliticization of $-\underline{ism}$ (see Ariste 1968-69). In English, Finnish, and Estonian, one can speak of all kinds of "isms", with \underline{ism} itself having the meaning 'doctrine, theory'.

As a reaction to the Agglutination theory of the origin of affixes, Tauli (1953) tells us, Alfred Ludwig² postulated the Adaption theory, and later Jespersen (1922) the Secretion theory. Both theories entail metanalytical reanalysis. Underlying Ludwig's Adaptation theory is a reanalysis of derivational or emphatic elements as inflectional. Jespersen's Secretion theory involves a reanalysis of "one portion of an originally indivisible word as coming to acquire a grammatical significance" (1922: 77). The possibility of metanalytical reinterpretation in morpho-syntactic change also permits the change from bound morpheme (i.e. affix or clitic) to full word.

Old Estonian offers a further example of decliticization. In Old Estonian two Second Position Clitics, namely interrogative <u>es</u> and emphatic <u>ep</u>, are free words showing no phonological interaction with a preceding word. Following Ariste (1973) and Alvre (1976, 1981), I argue that these two words have their source in Proto-Baltic Finnic Second Position clitics *s and *pa.

1.2. On Clitics

A clitic is a morpheme (possibly morphologically complex) having a mixed word/affix status. This is to say that it has some properties of words and some properties of affixes. Both diachronically and synchronically the clitic appears to be intermediate between the word and the affix.

Continuing along the lines of previous work (Nevis 1985a), I adopt the position that clitics are not primitive units of languages. Rather they fall into two classes of derived phenomena: (phonologically) bound words and phrasal affixes. The former is a special kind of word, the latter a type of affix. The bound word, in particular, has the syntax of words, but the phonological properties of affixes.

The Finnish clitics -pa/-pä, -ko/kö, and -han/-hän are bound words, as argued by Nevis (1985a). Although positioned with respect to the sentence as a whole, these morphemes cannot stand alone as independent words. Their phonological subordination to a preceding word is demonstrated by the application of vowel harmony. Vowel harmony operates over the phonological word, never beyond. Thus it can be used as a test for clitichood in Finnish:

```
tuuli-han 'the wind, you know' -- *tuuli-hän tyyli-hän 'style, you know' -- *tyyli-han
```

The Baltic Finnic clitic, as represented by Finnish, are Wackernagel-type, or Second Position (2p), clitics. These clitics are bound words that, in an otherwise free constituent order language, occur strictly positioned after the first constituent of the clause and enclitic on it. See section 2.1. for examples.

Second Position clitics (or actually Second Position bound words) have a particular resistence to affixation — both to phrasal affixation and to regular affixation. I demonstrate this point with data from Old Estonian. The Proto-Baltic Finnic Second Position clitics inherited by Estonian show some instability, namely decliticization. On the basis of the Baltic Finnic data, I offer a general account of possible and probable developments for Wackernagel-type clitics.

2. Ep and Es in Estonian

There are no Second Position clitics in Modern Estonian. From the point of view of her sister languages, a gap exists in Estonian. To account for this gap, one assumes that decliticization has taken place only in Estonian. This analysis is supported by two kinds of evidence. There is first an argument based on complementarity -- where the other Baltic Finnic languages have 2p clitics, Old Estonian has full words. The second argument relies on shared relic forms in all the Baltic Finnic Languages. Some support comes from a third source -- relic forms in Estonian alone.

2.1. Wackernagel's Law

Cognate morphemes in sister languages are Second Position, or Wackernagel-type, clitics. That is, they are phonologically bound words which are attached to the first constituent of a clause (no matter what that constituent may be). Corresponding to Estonian emphatic <u>ep</u> are emphatic clitics in the various sister languages:

(3)	Finnish	-pa/-pä	Tule-pa kotiin
	Karelian	-bo	come-EMP home midä-bo
	T	bo	what-EMP (Ahtia 1936:9) midä-bo
	Lyydi	-00	what-EMP (Larjavaara 1979:109)

Similarly, the BF cognates to Estonian interrogative <u>es</u> include Finnish, Karelian, Lyydi, Vepsä <u>-s</u>, which indicates not interrogativity, but informality (i.e. <u>-s</u> is a register marker). I account for the semantic discrepancy below in section 3.4.

(4) Finnish -s: tule-s tänne come IF here

Karelian -s: ottakkoa-s 'take (2PL IMP)'
take(2PL)-IF (Ahtia 1936: 132)

These are a subset of the various BF sentential clitics that obey Wackernagel's law. Other such clitics include BF -ko, northern BF -han/hän, Lyydi-Vepsä se, and a few more clitics (Penttilä 1957, Ahtia 1936).

(5) Finnish -han/-hän anna-han mennä 'let her/him/it go' give-HAN go

Votic -ko evät-ko sö 'don't they eat?' not-Q eat (Ahlqvist 1858:5)

Lyydi se kod'ii se ruoh'tinu tulda en home EMP dared come not 'Home I didn't dare (to) come' (Larjavaara 1979: 116-17)

On the basis of comparative evidence, we want to reconstruct for Proto-Baltic Finnic at least three Second Position clitics: emphatic *pa, informal *s, and interrogative *ko. The other clitics are more recent innovations. There are few traces of these clitics in Modern Estonian. For this reason one looks to ep and es, which correspond roughly in meaning and positioning, as continuers of the clitics.

Beyond the evidence presented in the following section, it is not entirely clear that *pa and *ko were true clitics and not just quasi-enclitics (i.e. stressless words) in the parent language. It turns out that their clitichood has no bearing on the decliticization analysis I present below, since clitichood can be established for Old Estonian on the basis of internal reconstruction.

2. Estonian ep

Ariste (1973) contends that Estonian affirmative emphasis marker $\underline{e}\underline{p}$ is a direct continuation of Proto-Baltic Finnic clitic $\underline{*pa}$. It appears in roughly the same sentential slot as $\underline{-pa}$ in other BF languages, and it has the same meaning. Ariste cites a number of examples from turn-of-the-century Estonian and from the modern dialects. I repeat select ones below; for a more complete listing I refer the reader to Ariste (1973).

Emphatic \underline{ep} is generally located after the first constituent of the sentence, as in the following examples:

(6) selle kivi peal ep kolgitigi neid riideid this rock on EMP pounded these clothes 'on this stone one pounded the clothes' (Ariste 1973:33; originally from Saareste 1958)

- (7) Mis ep saame näha what EMP get see 'What do we get to see'
- (8) Need ep vist sinu omad ongi? these EMP probably your own is-EMP 'These are probably your own?'
- (9) Siis ep ilmub Isakene, Tuleb taevast taadikene. then EMP appears daddy comes sky-EL granddaddy 'Then Daddy appears, granddaddy comes from the sky.'
- (10) See ep siis tuli, et temal veel tihli sõbradele oli anda there EMP then came that him still often friends-AL was give 'There then it came that he still often had a gift for friends'
- (11) See ep see on, mis suurem rahvahulk, that EMP that is what larger crowd

et vanal viisil mõtleb, ära mõista ei või that old-AD way-AD thinks understand not can

'That is that, what a larger crowd that thinks in the old way cannot understand'

Most examples involve a one-word constituent at the beginning of the clause, but examples like (6) above show that multiword constituents can occur before \underline{ep} as well. The location of \underline{ep} in second position is not strict, however, as demonstrated by (12).

(12) Täna näeb ta kirikus Hildat ja temale ta ep lilled today sees he church-IN H. and her-AL he EMP flowers viibki brings-EMP

'Today he sees Hilda in church and to her he brings flowers'

Thus, \underline{ep} appears in the "third" slot in this example. Ariste further suggests that it can occur in sentence-initial position: \underline{see} \underline{ep} \underline{ep} \underline{see} .

Not only has <u>ep</u> acquired phonological independence in its development from Proto-Baltic Finnic, but it seems to have acquired a certain amount of syntatic freedom as well. Numerous relic forms remain in the modern language, so that we know that <u>ep</u> was a bound morpheme. These are discussed below in section 4.2.

2.1. Negative ep

Ariste points out that Wiedemann (1857) considered (e)p a clitic in his dictionary, but confused it with the negative verb ep. The old third person singular of the negative verb was ep; it has been replaced in modern Estonian by ei, which has now spread to all persons and numbers. Nonetheless one still finds in the modern language ep ole (= ei ole) 'is not' and ep olnud (= ei olnud) 'was not' alongside their proclitic forms pole and polnud.

The continuation of Proto-Baltic Finnic *pa is affirmative emphatic ep, not negative verb ep.

3. Estonian es

Modern Estonian exihibits several \underline{es} words, only one of which is a direct continuation of Proto-Baltic Finnic $\underline{*s}$. The various homophonous morphemes are discussed below.

3.1. Interrogative es

Old Estonian interrogative \underline{es} has been discussed by Ojansuu (1922) and Alvre (1976, 1981). It is a Second Position word, as seen in the 1686 $\underline{\text{New}}$ $\underline{\text{Testment}}$ examples that follow (from Ojansuu 1922: 93-94).

- (13) Nüüd es tee uSSute (Joh. 16: 31) now Q you believe 'Now do you believe?'
- (14) Kelt es Se Proweet Seddä ütlep (ApT. 8: 34) whom-ABI. Q the prophet that says 'About whom does the prophet say that?'
- (15) Kumb es Se Suurem KäSk om SäduSSen (Matt. 22: 36)
 Which Q the larger order is law-ILL
 'Which is the greater command under/according to the law?'
- (16) MiSt es minna Sedda pea tundma (Luk. 1: 18)
 What-EL Q I that must know
 'How should I know that?'
- (17) Mink ka es Sis Soolata (Matt. 5: 13) What also Q then salt 'What kind then should you be?'
- (18) märätse es teije Sis peäte ollema (Joh. 6: 30) what-kind Q you then must be 'What kind then should you be?'
- (19) Märäst Tähte es Sinna teet ...? (Joh. 6: 30) What-kind letter Q you make 'What kind of letter/mark are you making ...?
- (20) märätsel Nimmel es teije Sedda ollete tennu? (ApT. 4: 7) what-kind name Q you that are done 'In whose name have you done that?'
- (21) Kes om minno Emmä, ninck kumma es omma minno Welle
 who is my mother and which Q is my brother
 'Who is my mother, and which is my brother?' (Matt. 12: 48)

Examples (17-19) demonstrate that location in the sentence is determined by constituents, not words, since interrogative \underline{es} appears not after the first word of the clause in these examples, but after the first constituent. One example shows that, like emphatic \underline{ep} , \underline{es} can occur elsewhere in the sentence than in Second Position.

(22) Kellega teie es sin tabate kõnelda whom-COM you O here want speak 'With whom here do you want to speak?' (from Wiedemann's Grammar, cited by Alvre 1976: 346)

Several of early examples still show \underline{es} as a clitic. The word cannot maintain any phonological independence since there is no vowel present. All \underline{s} examples are written together with the preceding word (23-24), so that we have orthographic evidence that es was once a Second Position Clitic.

- (23) -- Kustas meije Lanen ni paljo Leiba Same (Matt. 15: 33) whence-Q our kind get so much bread get '-- from where does our kind get so much bread?'
 - (24) Sinnas ütsinda wöras ollet... (Luk. 24: 18) you-Q alone stranger are 'Are you alone the/a stranger...?

In both of these examples, the final <u>s</u> of the first word (<u>Kustas</u> and <u>Sinnas</u>) is the interrogative clitic.

There is a semantic discrepancy in the correlation between Estonian interrogative \underline{es} and BF informal $\underline{-s}$. I deal with this problem below in section 3.4.

3.2. Conjunction es

Interrogative es is homophonous with, and according to some, etymologically identical to conjunction es. The latter is found in a seventeenth century Southern Estonian verse, as well as in Old Finnish (that is, the southwest dialect used by Agricola, Finno, and Hemminki). In both Southern Estonian and Old Finnish, Ojansuu (1922) tells us, es had the meaning 'if, although'. Ojansuu's contention that 2P interrogative es originated in initially positioned conjunction es is a viable alternative account to Alvre's, so it must be examined in detail.

In all of Ojansuu's examples, conjunction \underline{es} begins the clause, as conjunctions generally do in Finnish and Estonian

(25) South Estonian: Es mejie juhren olles Sedda pattu ni palju if our place being that sin so much

> jummala juhren om wehl ennamb armu. god's place is still more favored

'If in our place was so much of that sin, God's place is even more favored.'

(26) Agricola:

Eipe heiden pidhe woittaman ..., Es quinka corkiaSti
not-and they must win although how highly

he lendeuet; -- esquiga he ennen cucciStit they fly although-how they before flourished 'And they must not win ..., No matter how high they fly; ... no matter how they flourished before.'

(27) Finno:

cs cuSa Inhiminen olis

if where person would-be
'if a person would be somewhere'

(28) Hemminki: Es cuca vihans päähän nacka if who anger head-ILL flings 'If someone flings his anger into his head'

Conjunction <u>es</u> is derived from a former demonstrative pronoun/relative/indefinite pronoun stem *e_. The e_stem also occurs in the Finnish conjunctions <u>että</u> 'that", <u>ellei</u> 'if not', and dialectal <u>ellä</u> 'if', and in Estonian <u>emb-kumb</u> 'either (one or the other)', cf. Hakulinen (1979: 74). Paasonen (1906) finds cognates of the Baltic Finnic e_system in Mordvin, Zyrian, Votyak, Ostyak, and Hungarian, and suggests that the e_stem is a variant of the jo-stem (cf. Finnish jo-s 'if' just like conjunction e_s).

The <u>s</u> in conjunction <u>es</u> is a lative ending, which is also found in the Finnish conjunctions <u>jos</u> 'if' and <u>koska</u> 'because, when' (the <u>-ka</u> here is a former clitic — see Nevis 1984), and in the adverbs <u>alas</u> 'down', <u>ylös</u> 'up' and <u>pois</u> 'away'.

Ojansuu proposes that conjunction es is the source for interrogative es. His proposal would require that there was a change in positioning in the sentence, a semantic change 'if, although' > 'whether', and a shift from dependent clause to main clause. It would leave open the question of why there is an absence of 2P clitics in Estonian and it would leave unexplained all the relic forms in Estonian (cf. section 4 below). Ojansuu's account would have to posit not only the two syntatic changes and the semantic change, but also a phonological change (enclisis— examples (23) and (24) above have clitic—s).

Since some dialects have both interrogative and conjunction \underline{es} words, Ojansuu would also have to assume a syntactic and semantic split.

3.3. Past Tense Negative es

Interrogative \underline{es} is also homophonous with another unrelated form in the language, namely negative past tense \underline{es} . Some of the Estonian dialects have innovated a past tense for negative verb (stem in $\underline{e-}$). In general in Baltic Finnic, the negative verb $\underline{e-}$ has a defective paradigm. It may be inflected for person and number, but not for mood and tense. The Estonian dialects have allowed the negative paradigm to include tense, so that $\underline{e-p}$ is present tense and $\underline{e-s}$ is past tense, just like $\underline{laula-b}$ 'sings' and $\underline{laula-s}$ 'sang'.

(29) es näe' timä miDaGi' (Savijärvi 1981: 111) not-past see s/he something 'She/he did not see anything'

3.4. Interrogative Negative es

A third homophonous \underline{es} comes from the negative verb $\underline{e\cdot}$ plus clitic $\underline{-s}$ or from clitic combination $\underline{-ko-s}$. As in Finnish, the negative verb \underline{ei} combined with clitics $\underline{*ko}$ and $\underline{*is}$ to form a single lexicalized unit: \underline{es} ($\underline{*ei-ko-s}$. (Finnish bas $\underline{eik\ddot{os}}$, \underline{eiks} .) The difference between the affirmative and negative interrogatives can be seen in the morphology of the following verb and in the positioning of the particle \underline{es} . If the main verb is marked for person and number, then the cooccurring \underline{es} is affirmative; if the main verb is not marked for person and number, then the cooccurring \underline{es} is negative. The reason for this is that the negative in Baltic Finnic is an auxiliary verb and takes the person and number marks while the main verb has a special complement form. Also, if affirmative \underline{es} is used, then the particle is located in Second Position. But if negative \underline{es} is used, the particle is always sentence-initial. This is because the negative verb counted as the sentence-initial constituent to which $2P \,\underline{*ko-s}$ attached. Relevant examples are (30) and (31). Example (30) has finite main verb \underline{om} 'is' (predecessor to modern Estonian \underline{on}) rather than negative complement \underline{ole} (as in (31)). It further exhibits 2P \underline{es} instead of initial \underline{es} .

(30) Old Estonian: (= (15))

Kumb es Se Suuremb KäSk om Sädussen (Matt. 22: 36)

Which Q the larger order is law-ILL

'Which is the greater command under/according to the law?'

By contrast, the dialect example in (31) has the negative complement <u>ole</u> 'be' rather than main verb <u>on</u> 'is'. And in this example <u>es</u> is initial rather than second.

(31) Põltsamaa dialect (SW Estonian) from Alvre (1976: 346): es ta aïvem ole not-Q it cheaper be 'Isn't it cheaper'

4. Relic Forms

Evidence for the declitic analysis of Estonian ep comes from the existence of relic forms in all the Baltic Finnic daughter languages. Shared relic forms indicate that the parent language had bound words rather than free words. Further evidence lies in the large number of relic forms in Estonian itself (not shared with sister languages) showing that the sources for Old Estonian ep and es were clitic before the Old Estonian period — pre-Estonian at the latest, most likely Proto-Baltic Finnic.

4.1. Relic Forms in Baltic Finnic

All of the BF daughter languages exhibit relic forms which indicate that Second Position enclisis is inherited from the parent language. These include emphasis word juba/jopa 'even', negative plus interrogative eks/eiks/eikos, and negative plus connective egas/eikas.

According to Kalima (1936), all the BF languages have words that correspond to Estonian juba and Finnish jopa, both of which have an idiosyncratic, unpredictable meaning. The etymological source for juba/jopa 'even' is an old Germanic loanword ju, (Finnish jo) 'already' (Raun 1982: 21, cf. Gothic ju) plus emphatic *pa. The result is not semantically

compositional 'even already' but a special emphasis word. <u>Juba/jopa</u> has a typical syntax for a phonological word containing a Second Position Clitic; it can appear in other than initial position.

(32) from Kalima (1936: 144):

Finnish jo jopa Estonian juu juba

Livonian ju juba, jub, j va

All BF languages likewise show relics of combinations informal clitic $\underline{*s}$. Standard Finnish, for example, has $\underline{en-k\ddot{o}-s}$ 'don't I?', $\underline{et-k\ddot{o}-s}$ 'don't you?', $\underline{et-k\ddot{o}-s}$ 'doesn't ?'. Estonian has \underline{eks} 'doesn't ?'. All of these come from the negative verb (stem in $\underline{e-}$) and interrogative clitic $\underline{*ko}$ with optional informal clitic $\underline{*s}$. The appearance of this form in Estonian is particularly surprising since it does not have the two clitics in question elsewhere.

$$(33) \quad \text{a. Finnish} \quad \text{ISG en-k(\"o)-s} \\ \text{2SG et-k(\"o)-s} \\ \text{3SG ei-k(\"o)-s} \\ \text{1PL emme-k(\"o)-s} \\ \text{2PL ette-k(\"o)-s} \\ \text{3PL eiv\"at-k(\"o)-s} \\ \end{aligned}$$

b. Estonian eks $\langle ei/ep + ko + s \rangle$ NEG + Q + IF

Finally, the negative verb can combine with a former clitic conjunction $*\underline{ka}$ (see Nevis 1984) and informality marker $*\underline{s}$. Finnish has $\underline{en-\underline{ka}-\underline{s}}$ 'and you don't', $\underline{ei-\underline{ka}-\underline{s}}$ 'and he/she/it doesn't'. Estonian has \underline{egas} 'and doesn't'. Again the presence of Estonian \underline{egas} is unexpected here, since it displays (a relic of) clitic $*\underline{s}$.

b. Estonian egas < *ei/ep + ka + s NEG + CONJ + IF

In summary, the complementarity of Estonian <u>es</u> and <u>ep</u> with the other BF languages' Wackernagel-type clitics suggests a common origin. The relic forms <u>juba/jopa</u>, <u>eks</u>, and <u>egas</u> indicate that the forms were once bound in BF. More evidence for the bound nature of these morphemes comes from strictly language—internal facts.

4.2. Estonian relics

Alvre (1981) cites a number of Estonian relics forms in which bound \underline{s} continues former clitic * \underline{s} or clitic combination * $\underline{-ko-s}$. Bound \underline{s} has an interrogative function here, even if only redundantly in conjunction with some of the interrogative hosts — e.g. \underline{kuna} 'when' - $\underline{kuna-s}$ 'when'.

```
(35) From Alvre (1981):
    kuna-s 'when'
      kuida-s 'how'
      palgu-s, palju-ks 'how much'
      ammu-s, ammu-ks 'early?'
      ilma-ks 'free?'
      juba-ks, jooks 'already?'
      kaua-ks, kavva-s 'far?'
      kaugele-ks 'far?'
      kuni-s 'up to what? as far as what?'
      mina-ks 'me?'
      sina-ks 'you?'
      mitu-ks 'how many?'
      muidu-ks 'otherwise?'
nõnda-ks 'like this?' thus?'
      on-ks, on-s 'is?'
      oli-ks 'was?'
      pea-ks 'has to?'
      veela-ks 'still?'
      vähe-ks, vähä-s 'few?'
```

Dialectal forms include tuli-ks 'came?', räkkisi-ks-ma 'did I speak?', vötsi-ks-me 'did we take?', antsi-ks 'took?', miga-s 'what?', kumb-s 'which (of two)?', and ken-s 'who?' (Alvre 1981).

There are also a number of $\underline{-p}$ -relics in Estonian. The list in (36) is taken from Ariste (1973: 36):

```
see'p see on 'that's that' (lit. that-EMP that is)
küllap 'certainly'
siisap 'then'
siiap
        'hither'
temap
       'he/she'
nondap 'thus'
samap
       'same'
sinap
       'you (SG)'
       *T*
minap
kustap 'whence'
sealap 'there'
       'give!'
annap
tulep 'come!'
```

The $\underline{\ }$ p-relics show greater variety in "host selection". $\underline{\ }$ p attaches primarily to pronouns and adverbs, but can also be found connected to imperative verbs.

Former clitics *pa and *s cooccurred in some instances, as revealed in relics eps 'doesn't?' \leftarrow e- negative verb plus *-pa plus *-s, nondaps 'dann so' \leftarrow nonda 'thus' plus *-pa-s, teps 'hinfort, von nun an' \leftarrow te 'do!' plus *-pa-s, vastaps 'erst, soeben' \leftarrow vasta 'just' plus *-pa-s (Alvre 1983).

In some instances relics $\underline{}(k)-\underline{s}$ and $\underline{}\underline{p}$ have acted prophylactically to retain an apocopated vowel. For example, interrogative $\underline{}\underline{}\underline{}\underline{}\underline{}$ 'still?' retains older final $\underline{}\underline{}$, but $\underline{}\underline{}\underline{}\underline{}$ 'still' does not; it shows the effects of apocope. And $\underline{}\underline{}\underline{}\underline{}$ 'whence (EMP)' likewise retains older final $\underline{}\underline{}\underline{}$, while $\underline{}\underline{}\underline{}\underline{}$ 'whence' does not. In fact, a good number of Proto-Baltic Finnic case

suffixes ended in <u>a</u> or $\frac{a}{2}$ (according to vowel harmony). These final vowels were generally apocopated, unless a clitic such as $\frac{a}{2}$ or $\frac{a}{2}$ prevented apocope.

(37) ELATIVE -st < -sta/-stä
. INSSIVE -s < -ssa/-ssä
. ABLATIVE -lt < -lta/-ltä
. ABESSIVE -l < !la/-llä

Non-initial ä became e in Estonian.

The result of apocope in Estonian was that the final vowel came to be reanalysed not as part of the stem, but as part of the $\underline{-s}$ or $\underline{-p}$ morpheme. Thus, when $\underline{*kelt\ddot{a}}$ lost its final vowel while $\underline{*kelt\ddot{a}}$ - \underline{s} retained the vowel, the result was a realignment of the vowel with respect to the morpheme boundary (see also Alvre 1981):

(38) keltäs > keltes > kelt es keltä > kelt

One would expect also <u>as</u> as a remnant of back vowel harmonic $\underline{-a}$ (e.g. <u>kusta-s</u>) <u>kust as</u>), but I assume that leveling was responsible for the spread of \underline{es} at the expense of \underline{as} . A parallel reanalysis is necessary to explain the development of \underline{ep} (section 5.1.).

It is impossible to account for these relic forms in the cliticization approach — retention of a former morpheme-final vowel cannot be reconciled with language-specific agglutination of an \underline{es} or \underline{ep} word. Instead, these relic forms demonstrate that independent \underline{es} and \underline{ep} used to be bound morphemes, and thus decliticization is required to account for their development.

5. Clitic Development in Estonian and Finnish

That <u>ep</u> and <u>es</u> are independent words arising from phonologically dependent words is clear from the preceding discussion. What remains to be accounted for is the semantic shift from informal —s to interrogative <u>es</u>.

On the basis of the Finnish and Estonian data, I propose a general account of possible and probable developments for Wackernagel-type bound words. Old Estonian \underline{es} and \underline{ep} demonstrate that decliticization is one possible course of change. Old Estonian also shows loss of former interrogative clitic *-ko. Finnish $\underline{-ko/-k\ddot{o}}$ and $\underline{-pa/-p\ddot{a}}$ reveal that clitics of this sort can be fairly stable as well. Affixation is also possible, though rare -- Finnish informal $\underline{-s}$ is one such example.

5.1. Decliticization in Old Estonian

Both \underline{es} and \underline{ep} were once phonologically bound words. The two decliticized at roughly the same time and in the same manner. When final vowels were apocopated circa 1250-1500 AD (Raun and Saareste 1966: 59, Kask 1972: 155), clitics *-pa and *-(ko)-s acted prophylactically in preventing apocope:

(Recall non-initial $*\ddot{\underline{a}}$ > $\underline{\underline{e}}$; note also diphthongization $*\ddot{\underline{a}}$ > $\underline{\underline{e}}$ and certain degeminations.)

Once the default instance is the apocopated stem and the less common instance is the vowel allomorph before a clitic, the situation is ripe for reinterpretation. The morpheme boundary is "moved", so to speak, such that the vowel is considered part of the clitic:

(40) kelte-s > kelt-es peale-p > peal-ep

And once vowel harmony is lost as a productive rule (circa 1650 AD -- Raun and Saareste 1966: 65), there is no longer any evidence that <u>-es</u> and <u>-ep</u> are phonologically dependent words rather than independent (though unstressed) words, i.e. quasi-enclitics. Since the rule that is responsible for phonological subordination consequently lacks motivation, it disappears from the language altogether, and the clitics are no longer "clitic" but independent. In other words, bound words are marked with respect to independent words, and I propose that decliticization here is an instance of the more general case in which marked become unmarked forms.

Although one would expect both \underline{es} , \underline{ep} and \underline{as} , \underline{ap} from the Proto-Baltic Finnic clitics, one finds only the \underline{e} -vowel descendents. The two $\underline{e/a}$ alternates would be the continuations of former vowel harmonic alternates $\underline{a/a}$ as explained in section 4.2. I have been assuming that the \underline{e} -stem allomorphs spread at the expense of the \underline{a} -allomorphs (except in instances of lexicalization — section 4.2). Leveling of this type is confirmed by cases where neither \underline{e} - nor \underline{a} - sources occurred. Examples (7-9, 11, 13, 17) above, have not had an intervening vowel between the host and the clitic (or else had a different vowel).

- (7) Mis ep ... what EMP
- (8) Need ep ... these EMP
- (9) Siis ep then EMP
- (11) See ep ... that EMP
- (13) Nüüd es ... now Q
- (17) Mink ka es ... what also Q

Thus, for example, $\underline{\text{Mis}}$ (7) does not reconstruct with a vowel (i.e. not *misä-pä). These examples demonstrate the productivity and spread of $\underline{\text{es}}$ and $\underline{\text{ep}}$ at the expense of the $\underline{\text{a}}$ -variants.

When former *s and *pa failed to decliticize in Estonian, they were lexicalized to specific lexeme and morpheme combinations. Therefore the

productive forms \underline{ep} and \underline{es} did not spread to every item. One finds a similar lexicalization with Finnish informal -s.

5.2. Affixation in Finnish

In Nevis (1985a) I argue that Finnish $\underline{-s}$ is not a clitic but an affix. It is no longer productive insofar as it does not combine with just anything. It can be found in four situations: it attaches to clitics $\underline{-ko/-k\ddot{o}}$ and $\underline{-pa/-p\ddot{a}}$ (but not to clitics $\underline{-han/-h\ddot{a}n}$ 'you know, I wonder, by golly' or $\underline{-kin/-kaan/k\ddot{a}\ddot{n}}$ 'also, too, neither'), it attaches to interrogative pronouns \underline{kuka} 'who' and $\underline{mik\ddot{a}}$ 'what' and relative pronoun \underline{joka} 'who' (but not to other pronouns, e.g. \underline{se} 'it, that' or $\underline{min\ddot{a}}$ 'I'), and it attaches to imperatives like $\underline{otta-kaa-s}$ 'please take' but not other verbal $\underline{moods}(e.g. *\underline{otta-a-s}$ 'takes').

This restricted distribution is uncliticlike. Affixes typically impose restrictions on host selection, but clitics do not — they are generally promiscuous in attachment (Zwicky 1977, 1984). All occurrences of Finnish informal —s can be accounted for by assuming that the s-forms are allomorphs of the non s-forms. That is, tule-pa-s (come-EMP-IF) is not trimorphemic, but bimorphemic tule-pas, where —pas is simply the "informal" allomorph of —pa

Note that the two classes of phenomena in Finnish that allow informal $\underline{-s}$ are interrogative morphemes (interrogative pronouns plus their near cousins the relative pronouns, as well as the interrogative bound word $\underline{-ko/-k\ddot{o}}$) and emphatic morphemes (imparatives and emphatic clitic $\underline{-pa/-p\ddot{a}}$). The connection to the former is revealing. It shows the crucial link between Finnish informal $\underline{-s}$ and Old Estonian interrogative \underline{es} .

I propose that the primary source for Estonian <u>es</u> was precisely this lexicalized clitic $\frac{*-ko-s}{>} \frac{-ks}{>} (> \frac{-s}{>} > es)$. Interrogativity originates in the former Second Position clitic $\frac{*ko}{>}$, but through successive stages involving lexicalization of $\frac{-ko-s}{>}$ and upgrading colloquial $\frac{-k(o)s}{>}$, the meaning is now continued in es.

5.3. Clitic Loss

Proto-Baltic Finnic interrogative clitic $*\underline{ko}$ is now lost in Estonian. It played a role in the development of \underline{es} , as described above, and it is found in relic forms \underline{eks} , $\underline{veelaks}$, and a few other relics (see (35) above). The loss of $\underline{*ko}$ probably came about through regular sound changes in the language. Apocope (circa 13th century -- Raun and Saareste 1966: 63) would have dropped the final vowel, hence $*\underline{ei-ko}$ > $*\underline{ei-k}$, and loss of final $*\underline{n}$, \underline{k} , \underline{h} would have dropped the now-final consonant (Kask 1972: 155-156), hence $*\underline{ei-k}$ > \underline{ei} . The result is the awkward situation in which all interrogatives with former $*\underline{ko}$ become homophonous with declaratives.

Interrogative * $\underline{-ko}$ and \underline{es} (now archaic and dialectal) have been replaced by \underline{kas} . \underline{Kas} is positioned clause-initially and is of uncertain origin. Alvre (1983: 82) attributes to L. Kettunen the suggestion that \underline{kas} came from the imperative verb \underline{katso} ! 'look!'. But bimorphemic $\underline{ka-s}$ with relic of former interrogative clitics * $\underline{-ko-s}$ is just as likely (see Alvre 1983).

5.4. Wackernagel's Law

Bound words that occur in Sentence Second Position are oftentimes stable. They rarely complete the agglutination cycle by becoming affixes. This is

because they are frequently incompatible semantically with the host. There is often no semantic or syntactic connection between the Wackernagel-type bound word and the initially positioned constituent. Affixation cannot be ruled out completely, as evidenced by Finnish informal -s (section 5.3), but it seems to be one of the least likely developments of a Second Position clitic.

If the Wackernagel-type clitic is not stable, then it is either lost from the language (as with Proto-Baltic Finnic *_ko in Estonian) or it becomes independent (as with Proto-Baltic Finnic *_s and *-pa). Steele (1976) offers yet a different possible course of development -- the Second Position clitic can turn into another kind of clitic. In several Uto-Aztecan languages, the Wackernagel-type clitic inherited from the parent attachment to the initially positioned constituent preceding it to the verb which followed it. Yaqui is an example:

(41) ?inepo ne-?a-me?ak (Steele 1976: 554) I I -it-threw 'I threw it'

The former Second Position clitic pronoun <u>ne</u> no longer attaches to the first constituent in the sentence but to the following constituent, namely the verb. The former Second Position enclitic is now a verbal proclitic.

Ard (1977, 1978) presents similar data from the developments in the Slavic languages, although clitichood of the morphemes in question is not established for sure (i.e. they are likely to be leaners, i.e. quasi-clitics, rather than bound words). Wackernagel-type words are found in Czech, Slovak, Slovenian, Serbo-Croatian, Transcarpathian Ukrainian, and in dialectally in Polish. Attraction to the verb has taken place in the other Slavic languages. In Russian, Belo-Russian, Ukrainian (except for transcarpathian), and dialectally in Polish the cognate morphemes have turned into suffixes on the verb; in Macedonian and Bulgarian they are located adjacent to the verb—after an imperative or participle, before a finite verb. Thus the alternative to Wackernagel's Law has been attraction to the head of the clause, namely the verb.

Concluding Remarks

Old Estonian <u>es</u> and <u>ep</u> evince the rare phenomenon of decliticization or loss, but also shows the possibility of a change in the direction of attachment. In an SVO language, the sandwiching of the <u>result Pesition</u> clitics between the initial constituent and the verb permits the verb to exert a syntactic and semantic pull on the clitic group, so that they attach phonologically to the verb. Verbal clitics are more compatible with the host, and consequently are more likely to complete the agglutination cycle and less likely to decliticize.

Notes

*This paper was composed at the Ohio State University, but completed at the University of Michigan. A general absence of available materials forces me to leave out some potentially relevant Karelian, Vepsä, Votic and Livonian data. Irrelevant grammatical information is left out from glosses. Abbreviations used in this article include:

ABL ablative AD adessive AL allative

CONJ conjunction

EL elative

EL elative

EMP emphatic

HAN an epistemic clitic marking reintroduced information of current discourse relevance.

IF informal

ILL illative

IN inessive

PL plural

interrogative '

- 1. Janda (personal communication) now informs me that he has given up one piece of his synchronic analysis, namely the claim that the <u>'s</u> morpheme is synchronically a determiner to the following NP. His diachronic analysis remains as before.
- 2. Tauli cites Alfred Ludwig's (1873) article "Agglutination oder adaptation?", but I have not been able to locate that reference.

References

- Ahlqvist, August. 1858. <u>Wotisk Grammatik jemte språkprof och ordförteckning</u>. Acta Societatis Scientiarum Fennicae V.
- Ahtia, E. V. 1936. Karjalan Kielioppi. Karjalan Kansalaisseura, Suojärvi.
- Alvre, Paul. 1976. Vana Kirjakeele küsisõnu. <u>Keel ja Kirjandus</u> 1976.6: 343-350.
- Alvre, Paul. 1981. <u>Veelaks</u>-tüüp Kirjakeeles ja murdeis. <u>Keel ja Kirjandus</u> 1981.1: 24-30.
- Alvre, Paul. 1983. Zur Herkunft der Wörter <u>Kas</u> und <u>teps</u> in der estonischen Sprache. <u>Soviet Finno-Ugric Studies</u> 1983.2: 81-89.
- Anderson, Stephen. 1980. On the Development of Morphology from Syntax.

 Historical Morphology. Edited by Jacek Fisiak, Mouton.
- Ard, Josh. 1977. Raisings and Word Order in Diachronic Syntax. Ph.D. dissertation, UCLA (1975). Distributed by IULC.
- Ard, Josh. 1978. The process of reanalysis and its implications. Paper read at the Conference on Syntactic Change, University of Michigan.
- Ariste, Paul. 1968-69. Kas <u>ism</u> võib olla sõna? <u>Emakeele Seltsi Aastaraamat</u> 14-15.

- Ariste, Paul. 1973. Eesti rõhumaarsona <u>ep</u>. <u>Suomalais-Ugrilaisen Seuran</u> Aikakauskirja 72:33-37.
- Carstairs, Andrew. 1985. <u>Constraints on Allomorphy in Inflexion</u>.

 Distributed by the Indiana University Linguistics Club.
- Comrie, Bernard. 1980. Morphology and Word Order Reconstruction: Problems and Prospects. <u>Historical Morphology</u>, pp. 83-96. Edited by Jacek Fisiak. Mouton.
- Givón, Talmy. 1971. Historical Syntax and Synchronic Morphology: An Archeologist's Field Trip. CLS 7: 394-415.
- Hakulinen, Lauri. 1979. Suomen kielen rakenne ja kehitys. WSOY, Porvoo.
- Janda, Richard. 1981. A Case of Liberation from Morphology into Syntax: The Fate of the English Genitive Marker -(e)s. Syntactic Change. Natural Language Studies 25: 59-114.
- Jeffers, Robert, and Arnold Zwicky. 1980. The Evolution of Clitics. <u>Papers</u> from the Fourth International Conference on Historical Linguistics.

 Also in <u>OSU WPL</u> 24: 55-64.
- Jespersen, Otto. 1922. <u>Language, Its Nature, Development and Origin</u>. Holt and Co., New York.
- Kalima, Jalo. 1936. Itämerensuomalaisten kielten balttilaiset lainasanat. Suomalais-Ugrilainen Seura 202, Helsinki.
- Kesk, Arnold. 1972. <u>Eesti keele ajalooline grammatika</u>. <u>Häälikulugu</u>.
 Tartu Riiklik Ülikool, Tartu.
- Larjavaara, Matti. 1979. Lyydin <u>se</u>-partikkeli. Sivulaudatur työ, University of Helsinki.
- Ludwig, Alfred. 1873. Agglutination oder adaptation? Prag.
- Nevis, Joel. 1984. On Finnish Disyllables, Cliticization, and Typology to appear in the Proceedings of the Third Uralic Phonology Conference (Eisenstadt, Austria).
- Nevis, Joel. 1985a. <u>Finnish Particle Clitics and General Clitic Theory</u>. Ph.D. Dissertation, The Ohio State University (to appear in Ohio State University Working Papers in Linguistics).
- Nevis, Joel. 1985b. Deaffixation and decliticization in Saame: Abessive taga. Paper presented to the Linguistic Society of America Winter Meeting, Seattle. (In this volume of Ohio State University Working Papers in Linguistics).
- Ojansuu, Heikki. 1922. <u>Itämerensuomalaisten kielten pronominioppia</u>. Turun Suom. Yliopiston Julkaisuja B.1.3, Turku.
- Paasonen, Heikki. 1906-08. Die finnischen pronominalstämme <u>jo</u> und <u>e-</u>. <u>Finnisch-Ugrische Forschungen</u> 6:114-17.

- Raun, Alo. 1982. <u>Eesti keele etümoloogiline teatmik</u>. Maarjamaa, Rome-Toronto.
- Raun, Alo, and Andrus Saareste. 1966. <u>An Introduction to Estonian Linguistics</u>.
 Ural-Altäische Bibliothek, Wiesbaden.
- Savijärvi, Ilkka. 1981. Sanajärjestystyyppi pääverbi--kieltoverbi viron kielessä. <u>Virittäjä</u> 85.2: 109-117.
- Steele, Susan. 1976. Clisis and Dichrony. Mechanisms of Syntactic Change, pp. 539-579. Edited by Charles N. Li. University of Texas, Austin.
- Tauli, Valter. 1953. The Origin of Afixes. FUF 32.1-2: 170-225.
- Vesikansa, Jouko. 1977. Johdokset. Nykysuomen oppaita 2. WSOY, Porvoo.
- Wackernagel, Jakob. 1892. Über ein Gesetz der indo-germanischen Wortstellung. IF I: 333-436.
- Wiedemann, Ferdinand J. 1875. Grammatik der Ehstnischen Sprache. L'Académie Impériale des sciences, St.-Péterbourg.
- Zwicky, Arnold. 1977. On Clitics. Distributed by the Indiana University Linguistics Club.
- Zwicky, Arnold. 1984. Particles and Clitics. <u>OSU WPL</u> 29: 105-116. (also appeared (1985) in <u>Language</u> 61.2: 283-305.