MINOR-SYLLABLE VOCALISM IN SENOIC LANGUAGES

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More than sixty-five years ago, C. O. Blagden (W. W. Skeat and C. O. Blagden, 1906) tried to determine the places of the aboriginal languages of Malaya within the "Mon-Annam" family, as it was the called. There was in his opinion a double relation ship: his "outer dialects", i.e. approximately our "Semelaic" (South Aslian) branch, classified by Blagden as type IV, were directly related to Mon-Khmer proper, whereas his "Sakai" (Central Aslian) dialects, type II and III, i.e. approximately our "Senoic" (Central Aslian) branch, were "outlying members" of the family very much like Khasi, Palaungic and Nicobarese. As for his type I, or "Semang" dialects, i.e. approximately our "Jahaic" (North Aslian), they were not considered original members of the family at all.

In this paper I should like to take up Blagden second claim, concerning the relationship of Senoic to Mon-Khmer, and propose a qualification of it.

Turning first to lexicostatistics, I was surprised to find that the relationship of Senoic to several branches of Mon-Khmer such as Bahnaric, Katuic or Palaungic falls in the 20-25% range. This suggests that Senoic has approximately the same degree of relationship with Mon-Khmer subgroups as these sub-groups have among themselves. That is to say, Senoic would be a sub-group of

-Khmer proper. Attempts to reach a more precise tement by this method and establish which branch Mon-Khmer is closest to Senoic have thus far ught me only frustrations. Variable percentages due to a dozen items for which any uncertainty elicitation or in judgment of cognation can alidate conclusions. I have therefore had to n to the more compelling evidence of phonology.

Disregarding a few recent developments such as al voiced stops in some Temiar dialects and preasalized finals in some Semai dialects, Senoic nology is typically Mon-Khmer. We have initial medial voiced and voiceless stops in four places articulation. Predictably, we have no register or e distinctions in the vowels. We have a very wded vowel system with long vs. short, nasal vs. 1, and usually four (sometimes five) degrees of ght. We have contrasts between final /k/ and /?/. also have final palatals /c/ and /n/. A few mples of words with final palatals will be enough illustrate the Mon-Khmer character of Senoic. 1

Senoic final palatals

- 'flesh': Jh. /sec/, W.Si. /sec/, E.Si. /sec/, S-W.Te. /sec/, N-E.Te. /sej/, Sn. /sec/
- 'feces': Jh. /?ɛc/, W.Si. /?ɛc/, E.Si. /?ec/, S-W.Te. /?ec/, N-E.Te. /?ej/, Sn. /?ec/
- 'Ι': W.Si. /?εɲ/, E.Si. /?ejɲ/
- 'to throw, shoot': W.Si. /pεc/, E.Si. /pejn/, N-E.Te. /pec/
- 'to harvest': Jh. /kɛc/, N-E.Te. /kej/, Sn. /kec/, W.Si. /kɛc/, E.Si. /kec/, S-W.Te. /kec/
- 'to weave': W.Si. /ta:c/, E.Si. /ta:jn/, N-E.Te. /ta:c/

- 'to ask': Jh. /smap/, W. and E.Si. /sma:p/, N-E.Te. /sma:p/
- 'ghost': Jh. /kmɔc/, W.Si. /ki?mɔ:c/, E.Si. /kcmɔ:c/, N-E.Te. /kɛjmu:j/
- 'tooth': Jh. /lmup/, W. and E.Si. /lmu:p/, S-W.Te. /lmop/, N-E.Te. /mop/, Sn. /lmop/
- 'to sting': Jh. /suc/, W. and S-E.Si. /suc/, N-E.Si. /socc/, S-W.Te. /suc/, N-E.Te. /suj
- 'termite': Jh. /grup/ ~ /drup/, W.Si. /gru:c/ N-E.Si. /gro:jp/, N-W.Si. /gru:jp/, N-E.Te.

/garuc/

'uncle': W.Si. /ku:c/, N-E.Si. /ko:jn/, S-E.Si. /ku:jn/, N-E.Te. /ko:c/, Sn. /?nkon/

The phonological features so far mentioned are common Mon-Khmer features which are found or can be reconstructed easily for most branches of the family. What we need to find is a Senoic innovation shared by some other group outside the peninsula. Preglottalisation of d and b was proposed some time ago by Haudricourt (Haudricourt, 1965) as an early isogloss separating Mon, Palaungic, Katuic and Bahnaric on the one hand and Khmer, Pearic and Khmuic on the other. Senoic agrees with the latter group, having apparently merged the old preglottali stops with simple voiced b and d. For example: Si /ba:?/ : 'padi', /krba:r/ : 'twin' (0. Mon, bar : 'two'), Si. /dic/: 'completed' (0. Mon dik), Si. (S-E., N-E.) /du:k, du:un, do:kn/, Te. /de:k/ 'house (0. Mon dun 'city, province'). However, this does not make a very convincing case inasmuch as the history of the preglottalised stops is still obscure; in any event, loss of preglottalisation is highly probable as an independent innovation. Our search is therefore still inconclusive. Perhaps it would be more rewarding to turn the question around look for innovations shared by most Mon-Khmer guages except Senoic or Aslian.

One very conspicuous such feature has to do with d and root phonology. Senoic, and indeed Aslian guages in general, have a great quantity of ysyllabic words. I am not referring here to words ing minor syllables with neutral vowels, which found in practically all Mon-Khmer languages inding Senoic itself: I mean words with minor lables containing contrasting vowels not predicte by environment.² For many of these polysyllabic oic words, minor vowels are introduced by phonetic morphological rules which I shall outline below. a large number of other cases, however, no such lanation is available. In other words, Senoic guages have a class of true dissyllabic roots with h vowels as /a/, /i/, and /u/ in the minor lable. This feature seems to me very unusual Mon-Khmer languages if not altogether unique.3 s Blagden's statement was perhaps more than a sible guess, and I propose that this problem be mined carefully throughout the family and to in with, in Senoic.

I.

Minor vowels of phonetic origin

Before setting aside the matter of enunciative anaptyctic vowels, I should like to mention three es of such vowels with unusual phonetic qualities various Senoic dialects.

Anticipation of major vowels

In all forms of Senoic, the vowel of a major lable beginning with /h/ or /?/ is anticipated a minor vowel. That is, a short, unaccented

vowel, otherwise identical to the major vowel, is inserted before the /h/ or the /?/ in case another consonant precedes; e.g., /bhi:p(m)/ 'blood': [bihi:p(m)], /k?e:p/ 'red centipede': [ke?e:p].4 Actually the phonetic notations used here do not reflect the articulations of these words with enoug precision. The vowels on the one hand and the /h/ or /?/ on the other require articulators whose move ments are totally independent of each other, so that it is perfectly possible to superpose both articulations. The main vowel $/\epsilon$:/ of $/k?\epsilon$:p/ starts where /k/ ends and ends where /p/ begins; the glottal stop is superposed at some time during the utterance of the vowel. The acoustic effect is vowel anticipation, but in terms of articulation, the segmental principle is violated, a fact which is awkward to represent with the IPA and even worse with distinctive features.

2. /-u-/ insertion

In Semai, when two labial consonants precede the major vowel, the neutral transitional vowel acquires the quality /-u-/; e.g., /mmat/ 'a shrub, Clinogyne sp.': [mumat]. This also occurs if a glottal stop separates the two labials. Thus in North-West Semai, where the reduplicated /-t-/ of /btbɛ:t/ 'sleeping' is changed to /-?-/, /b?bɛ:t/ is pronounced [bu?bɛ:t]. The lip-rounding of the labials spreads across four segments and is superposed on the glottal stop. This lip-rounding rule is a late phonetic rule and is not manifested in morphophonemics: nasal infixation does not produce a form *bnu?bɛ:t but simply the regular /b?nɛ:t/: [m?nɛ:t].

 $/-\varepsilon-/$ insertion

Most Temiar dialects have a peculiar rule by ch an $/-\epsilon-/$ instead of the expected neutral vowel is inserted in long consonant clusters. The rule easily stated if we count consonants backward, rting from the main vowel: $/-\varepsilon-/$ is inserted in nt of any consonant which is preceded and followed another consonant. Thus in East Temiar /cbci:b/ omes [cebci:b], /brci:b/ becomes [berci:b] while bci:b/ becomes [brebci:b] (all from the root :b/, 'to walk'). The process is recursive but errupted by certain junctures; e.g., from the root a:d/ 'curly hair' we get the phonological forms lã:d/, /krdlã:d/ and /kd-krdlã:d/ with a special cture in the last word to attach the reduplicated fix /kd-/. The corresponding phonetic forms are dlã:d], [krɛdlã:d], and [kɛdkrɛdlã:d], not EkrEdlã:d as free application of the rule would ld. Similarly, the form /barbrŋtu:k/ (bar-br+ŋ+ k) 'to frighten each other' does not yield rebrentu:k but simply [barbrentu:k], due to the cture between the prefix /bar-/ and the rest of word.6

II.

Minor vowels of morphophonemic origin

Many minor vowels found in Senoic are actually roduced in morphemic variants of one sort or ther. For example, the most common morphological cess in Senoic is infixation of the final consote between two initial consonants; e.g., Si.

|:|/ 'to choke' > /c|?u:|/ 'to be choking'. In the table of the final is inserted between the initial

consonant and its reduplication : /ci:p/+/cci:p/+ /cpci:p/, 'to be walking'. This is a productive process in verbs, which I called elsewhere the Indeterminate mode (Diffloth, 1972); it is also four in a few nouns as a fossilized process. This kind "infixed reduplication" gives rise to three categor of minor vowels.

Infixation of /-i-/ and /-u-/

'sharp'

In those roots where the final consonant is a /-w/ or a /-y/, the infixed form is vocalised to /-i-/ and /-u-/.

- Si. /kho:y/ 'to yawn' > /kyho:y/ → [kiho:y] 'to be yawning' /sjε:w/ 'sharp' > /swjε:w/ → [sujε:w]
 - /qu:y/ 'to sit' > /gygu:y/ -> [gigu:y] 'to be sitting' /ca:w/ 'to sprinkle' > /cwca:w/ → [cuca:w
- 'to be sprinkling' We find the same pattern in Jah Hut, 7 where the

morpheme boundary is in addition marked by a glotta Thus:

- */khway/ 'to yawn' > /ky?hway/ → [ki?hway Jh. 'to be vawning' */noy/ 'to copulate' > /ny?noy/ \rightarrow [ni?noy
 - 'to be copulating'

As for Temiar, the rule of $/-\epsilon-/$ insertion see to supersede any vocalisation of /-w-/ and /-y-/. Thus:

/po:y/ 'to blow (wind)' > /pypo:y/ > To. [peypo:y], not *pipo:y, 'to be blowing /kɔ:w/ 'to call' > /kwkɔ:w/ → [kɛwkɔ:w], not *kukɔ:w, 'to be calling'

However, there are a number of fossilized forms whi can no longer be decomposed but which suggest that vocalisation of /-w-/ and /-y-/ at one time occurre

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femiar. For example: /pipu:y/ 'not completely
ke<sup>t</sup>, not *psypu:y, from a root */pu:y/ not found
lemiar but which yields Semai /pinu:y/ 'day-
aming', and /cnilo:y/ 'flute', not *cnevlo:v.
al infixed and reduplicated form of a root "/clo:y/
found in Modern Temiar but which yields Semai
lo:y/ 'to lull a child to sleep'.
Infixed reduplication in nouns also gives rise
'-i-/ and '-u-/ minor vowels, especially in
ination with the nasal infix which derives count
ns from mass nouns:
 Si. /slə:y/, 'swidden(mass)', /s-n-y-la:y/ > [snîla:y], 'id. (count)'
      /te:w/, 'river', /t-w-n-e:w/ → [tunî:w]
'id. (count)'
Semaí as well as Temiar many noun forms with /-î-/
/-u-/ minor vowels can probably be explained as
silized products of this same rule. For example,
.Si.: /kuke:w/ 'generic name for snake' and
air /kukẽ:w/ 'python' are probably fossilized
uplications of a root */kε:w/ */kε̃:w/.
Infixation of /-i?-/
A few dialects of Semai in the Kampar basin have
hed this process one step further. In these
lects, most infixed final consonants (except ///
/r/, /w/ and /y/) have been changed to /-?-/;
. /gu:p/ 'to winnow vertically' > [g?gu:p] (other
lects have [gmgw:pm]). However, if the final
sonant to be infixed is a palatal, i.e. /-c/,
/, /-s/ (for -y, see above), then the infixed form
/-1?-/. Thus:
/nu:c/ 'burnt' > /nc-nu:c/ > [ni?nu:c]
 /pro:c/ 'brittle' > /pcro:c/ > [pî?ro:c]
 /bes/ 'to throw out rubbish' > /bsbes/ >
    [bt?bəs]
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And again we find several fossilized noun forms such as [ki?mo:c] from /kmo:c/ 'ghost'. The few final nasals preserved in this dialect give rise to /-in-//-in-/, /-in-/ or /-im-/ infixes; e.g. /sma:p/ 'to ask' > [simma:p] < /s-p-ma:p/ 'asking' (cf. /s-n-ma:p/ \rightarrow [smma:p] 'a request').

3. Infixation of /-a-/

This same infixed reduplication causes the appearance of an /-a-/ minor vowel in Semai. When the final consonant is an /h/ or a /?/, an /-a-/ is inserted in front of the infixed /h/ or /?/. For example, /ku:?/ 'to vomit' yields the form /k?kw:?/ pronounced [ka?ku:?] and similarily /bhe:?/ 'satiate > /b?he:?/ [ba?he:?]. With final /-h/ we have /koh. 'to chop off' > /khkoh/ [kahkoh] and /cləh/ 'to go down' > /chləh/ [cahləh]. This rule is found in all dialects of Semai except in a few villages of the Perak basin in the extreme Northwest corner of Semai territory. It is found nowhere else in Senoic.

III.

Minor vowels of morphological origin

Finally, certain minor vowels are introduced a parts of morphemes or may even constitute morphemes by themselves.

Modals /ha-/, /gu-/, /ka-/

The verbs of several Semai dialects have three modals: a desiderative /ha-/ prefix, an habitual /gu-/ prefix and an involuntary /ka-/ prefix. All three are placed between the bare root and the personal prefixes which agree with the subject: /ke:?kiguja:p/, 'he is always crying' (he-third person-Habitual-cry). The Temair /bar-/, "reciproc prefix could also be added here. So long as these

phemes are productive like the ones just mentioned, y present no special difficulty; but there are o morphemes which are no longer productive, and identification of these may pose problems.

nominal infix /-an-/

A morpheme /-an-/ is infixed into a small number verbs to yield mostly nouns of location. Thus m the verb /dəp(m)/ 'to settle on a place off the und' is derived the noun /danəm/ 'roosting place a bird)', while from the verb /cru:t/ 'to go down lope' is derived the noun /cnaru:t/ 'downward pe'.

There is also the resultative (Chafe, 1970) ix /-a-/, which is unproductive in both Semai and

resultative /-a-/ infix

iar. In roots with two initial consonants the el /-a-/ is simply infixed between them. Thus Si. /slo:r/ 'to lay flat objects into a round tainer (e.g. banana leaves in a back basket)' > lo:r/ 'to be in layers (in round container)'. In ts with one initial consonant, the /-a-/ morpheme infixed between this consonant and its reduplican. Thus W.Si. /cẽ:s/ 'to tear off' > /cacẽ:s/ be torn off' and /roc/ 'to uproot (especially a er)' > /raroc/ 'to be uprooted (of a tuber)'. s infix has noticeable syntactic consequences: turns transitive, agentive verbs into intransie, agentless ones. Thus W.Si. /?abat ?ajeh acε̃:s la ?ερ/ (cloth this I-will-tear by me) 'I 1 tear this cloth' and /?abat ?ajeh la (bi)cac $\tilde{\epsilon}$:s/ oth this Completive (it)-Resultative-tear) 'this th is already torn', or /?m-bo? kno:n ku clo:t-n/ carry child at back-my) 'I carry my child on my k' and /kno:n la ki-babo? ku clo:t-n/ (child

Completive he-Resultative-carry at back-my) 'my chiwas carried on my back'. In resultative derivations
the object (target or product) of the active verb
becomes the subject; there is no agent expressed or
even implied, and the Subject is described as being
in the state resulting from the action of the Verb.
Thus the resultative could also be called anticausative since the active is really a causative of
the resultative.

Rare prefixes /ma-/, /hu-/, /sa-/

Going down the scale of frequency, we find a formore identifiable prefixes.

/ma-/ is prefixed to adverbs of quantity and degree to create verbs; e.g., /gec/ 'fast' > /magec. 'to hurry', /g ϵ ?/ 'few' > /mag ϵ ?/ 'to reduce, to share'.

The prefix /hu-/ creates time nouns: /hupu:r/
'tomorrow' (< /pu:r/ 'to dawn'), /hunun/ 'the presettime' (nun is a deictic).

There is also a prefix /sa-/ with the same function as resultative /-a-/: e.g., /tu:h/ 'to destroy' > /satu:h/ 'destroyed'.

One point of this long enumeration is this: even after so much analysis there remains a large number of words in which minor vowels cannot be accounted for and must be considered part of the root. I would claim this to be the case for words like Si. /kami: n/ 'cheek', Si. /tako: y/ 'a lizard', Si. /kalo:?/ 'snail', Si. /bali:k(n)/ 'skies', Jah Hut /talon/ 'python'. Thus we have at least three types of roots in Senoic: CVC, CCVC and CVCVC.

This third type, with minor vowel CvCVC, is as basic and unanalysable as the two others. Verbs of

s type are inflected for the three basic grammat
l categories: Indeterminate, Causative and

inalization regularly found in the other two types

verb roots. The morphological markers are as

lows:

Root type mmatical tegory	c ^m cv ^f	c ^p c ^m vc ^f	c ^p vc ^m vc ^f
eterminate	$c^m c^f - c^m v c^f$	c <u>Pc</u> fc ^m vcf	<u>b</u> -c ^p vc ^m vc ^f
sative	pr- br- p- c ^m vc ^f	c ^p - <u>r</u> -c ^m vc ^f	<u>p</u> -c ^p ∨c ^m vc ^f
inalization	c ^m c ^f - <u>n</u> -vc ^f	c ^p - <u>n</u> -c ^m vc ^f	c ^p - <u>n</u> -vc ^m vc ^f

mples of this third type of root are /kalo:?/

me, stupid' > /bkalɔ:?/ 'being stupid', /pkalɔ:?/ render stupid', /knalo:?/ 'stupidity'. If this e were morphologically complex rather than basic, should not find such derivatives. To take a cific example, /kalp:?/ cannot be analysed as an tance of the /ka-/ involuntary prefix plus a root :?/ even though the meaning "involuntary" could read into the gloss 'tame, stupid'. Compounds h the /ka-/ prefix cannot yield derivatives such /knalo:?/, /bkalo:?/, and /pkalo:?/. Only the eterminate mode would be possible, and this would e the form */kala?lo:?/ from the postulated CVC t */lo:?/; but such a form does not exist in ai, nor is there evidence of any root /10:?/ nected with the meaning 'stupid'. The analysis t be rejected.

It is also tempting to try to analyse verb root with the /-a-/ minor vowel as instances of the resultative mode and to postulate defective roots. However, many of the verbs in question are transitiv (e.g., /bake:?/ 'to see'), while even those which ar intransitive often do not have either the meaning or the syntactic properties of resultatives. In such cases also the analysis must be rejected.

I must also address myself to the obvious objection that roots with minor vowels could simply be Malay or Austronesian borrowings.

It is true that there is a good number of Malay borrowings in Semai, and these are usually integrate to the morphological patterns of Senoic. For exampl Si. /tiba:?/ 'to arrive' (Mal. tiba) has the regular Semai derivatives /btiba:?/, /ptiba:?/, /tniba:?/ (indeterminate, causative, and nominalisation, respectively). These borrowings tend to refer to everyday items or notions such as 'stone', 'to like' and even 'day'. They are therefore conspicuous and usually easy to identify. But the problem is seen t be more delicate when we recall Blagden's remark tha Senoic languages may contain borrowings from Austronesian languages other than Malay. This possibility might take us far afield but I doubt that it would invalidate my thesis, since many dissyllabic Senoic roots have obvious cognates in other Mon-Khmer languages. Even in the absence of known Mon-Khmer cognates, the phonological details of many of these roots make an Austronesian origin very unlikely. In order to support this claim, I list below most of the dissyllabic Semai roots I have encountered so far which end in a palatal obstruent /-c/ or /-p/. Since Austronesian languages as a whole do not have

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nal palatals, we can be reasonably sure that these
ts were not borrowed from that family.
ai dissyllabic roots with final palatal obstruents 9
wã:c/
             Exp. 'curved (as a road)'
ılã:c/
             V. -tr, -ag, -pat, +loc '(to walk)
                to and fro'
atã:c/
             V. +tr, +ag 'to scratch, tear with
anron/
             Exp. 'protruding muscles (of thin
                person)'
             V. +tr, +ag 'to scratch and scoop'
apã:c/
             V. 'to pick up by the handful'
ap₩:c/
alεc/ ~
             'ball (of eye, testicle)', see also
/klec/
                the verb /kr/sc/ 'to extract the
                pit of a fruit'
ırã∶c/
             N. 'bird sp.'
             V. -tr, -ag, -pat 'to slide (of land)'
ara:c/
             Exp. 'nimble, fast'
alεc/
ale:c/
             Exp. 'short (of hair on neck)'
             V. +tr, +ag 'to disobey (orders)'
alãc/ ~
/qalã:c/
ala:c/ ~
             Exp. 'long (of teeth, forehead)'
/gala:n/
/galo:n/ ~
/galw:n/
             V. +tr, -ag, -pat 'to be inquisitive
u?̃€:c/
                about sth.'
alεc/
             N. 'small plant sp.'
             Exp. 'wide open'
awã:c/
             Exp. 'hooked (of nose)'
\n:cws
             N. 'by-name of /g\eta s\epsilon:k(\eta)/, the three-
                striped palm civet, Arctogalidia
                 trivirgata'
             Exp. 'protruding (of teeth)'
aran/
             N. 'name of a hill'
/תפתש
             N. 'the last remaining of a series,
urɔ:ɲ/
                e.g. teeth'
             V. +tr, +ag 'to sharpen a tool roughly,
agεc/
                quickly'
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/pilu:n/
               Exp. 'drooping (of eyes)'
/payan/
               Exp. 'dishevelled'
               V. +tr, +ag 'to curse food, when angr
/balec/
               Exp. 'ugly face'
/mano:c/
               N. 'small fruit sp.'
/manu:n/
               Exp. 'angry, grinning expression'
               V. +tr 'to beg food'
/mamu:n/
/ridu:c/
               Exp. 'large body'
               N. 'jaw's harp'
/raŋɔ:jn/
               Exp. 'skeletal'
/rankan/
               Exp. 'bare-necked (as of chicken)'
/rango:c/
               ?Adv. 'without rules, at random'
/raww:c/
               V. +tr, +ag 'to snatch'
/runtuc/
               V. +tr, +ag 'to crush sth. soft in
/lunec/
                  the hand'
               V. 'to throw blood toward the skies t
/siwa:c/
                  stop thunder'
               V. +tr, +ag 'to sip a drink'
/siruc/ ~
  /sruc/
               V. +tr, +ag 'to pry (e.g. a log) open half way'
/sagsc/
               V. -tr, -ag, -pat, +loc '(of the
/sapsc/
                  fingers) slip (in trying to grasp)
/samsc/
               V. 'to end'
/sawã:c/
               Exp. 'striped'
               N. 'alternate name for the /ho:r/ or
                   three-striped ground squirrel,
                   Lariscus insignis Cuvier'
               V. -tr, -ag, -pat 'to be grieved'
/sarac/ ~
   /saru:c/
                V. +tr, +ag 'to occupy, take over a
/salic/
                   place'
                   -tr, +pat (Resultative) 'to be
/salec/
                ٧.
                   dislocated (of joint)' (a case
                   of unproductive sa- prefix ?)
                   (but there is no root /lec/) gloss
/sahũ:c/
                V. 'to slide down a hill, for fun'
                V. -tr, -ag, -pat, +loc 'to boil over
/suma:c/
                   from a container'
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V. -tr, +ag 'to crane the neck to see sth.'

equency of dissyllabic roots in Senoic. By far the st common minor vowel is /a/, often preceded by /t-//k-/, but other consonants and vowels are by no ans absent. Thus even if a /ta-/ or /ka-/ prefix discovered in the future our claim will not be validated by any means.

I should like to remark, finally, that despite ly regular correspondences in minor vowels found oughout the Senoic branch (ex: 'cliff': Si., Te. ata:?/, Jh. /lata?/) there are unexplained egularities from language to language and even on e dialect level. In some cases, the whole minor lable may disappear in some dialects and remain others: this is the case for Semai /kami:n/ ~ :n/ 'cheek'. Alternatively, the minor vowel may sappear for no apparent reason: Te./garuc/, . /gr $_{ ext{grup}}$ /gr $_{ ext{up}}$ /dr $_{ ext{up}}$ / 'termite'. 10 As these iations are not accompanied by any change of aning they must be assigned to a morphophonemic cess now inactive. There are synchronic traces such alternations, very reminiscent of what pens in Khasi compounds. For example, Si. at mu:r/ 'larva' (for /mat kmu:r/, literally 'eye, ed of caterpillar'). In any event, the full form ther than the abbreviated one must be considered e root, since it contains more unpredictable terial. We hope this elision process can be tter documented and explained in the future. is, it may be possible to show that Senoic had an

en greater number of dissyllabic roots: many

present-day monosyllables may prove to be elided forms of longer roots which have since become obsolete. More puzzling and somewhat discouraging are the few cases of minor vowel irregularities: Semai has /kuro:// 'knee' corresponding to Temiar /karo:// Jh. /krwal/, and Sennam /kayol/.

In view of all this, I would propose that in future Mon-Khmer historical research we examine the hypothesis that Senoic dissyllabic roots represent a archaic feature which has disappeared from most othe branches of Mon-Khmer. If this can be confirmed, it might indicate that Senoic separated from the rest of Mon-Khmer earlier than any other branch, as Blagden indicated. Or else the split is more recent and several Mon-Khmer branches have independently innovated their loss of minor vowels in roots. The latter view fits well with the indications of linguistic geography: most other branches of Mon-Khmer are in contact with monosyllabic languages, whereas Senoic is not, and has been in contact with languages where dissyllabicity is the rule. This dissyllabic hypothesis would also bridge the gap between Munda and Mon-Khmer, and could even add some fuel to the dormant Austric theory.

The following abbreviations are used: Jh. = Jah Hut, W.Si. = West Semai, N-E.Si. = North-East Semai, S-E.Si. = South-East Semai, E.Si. = East Sema S-W.Te. = South-West Temiar, N-E.Te. = North-East Temiar, Sn. = Sennam.

²It should be clear that I am also excluding from discussion the orthographic vowels noted y in Khasi, a in various Montagnard languages, as well as the two minor vowels of Khmer, inasmuch as their qualities and very occurrence are entirely predictab

³This article being written in the field, I lac proper bibliographical reference, but I recall that

nemic minor vowels. $^4\mathrm{If}$ the consonant preceding the /h/ or /?/ is asal or a liquid the vowel is not anticipated;

Mon, some Katuic languages and Khasi may have

., /mrhū:r/ 'a snake sp.' : [marhū:r], /sn?ɔ̃:y/ man being, Senoi' : [səŋ?ɔ̃;y].

 5 From Malay bemban, through the regular sound inges: bmbath, bmbat, bmat, mmat.

⁶There are other exceptions to the rule due to e fact that /wa/ and /yɛ/ are historically derived on syllabic nuclei (/u $^{\wedge}$ / and /i $^{\wedge}$ /) while today, w and the y are sometimes analysed as consonantal l sometimes not; ex.: [trɛlhwal], 'causing to enter' id not *terlehwal, gercyes and not *grecyes).

 7 The third major division of Senoic.

⁸These words and many others have clear Moner cognates outside Senoic and even Aslian.

Abbreviations are N. = noun, V. = verb, tr. = ensitive, ag. = agent, pat. = patient, loc. = cative, Adv. = adverb, Exp. = expressive.

 $^{10}{\it Cf}.$ also Semelai /ruɲ/, Semaq Beri /darəɲ/, e'Wong /darəjn/, Jahai (Scheb) /darun/.

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