VESTIGES OF MORPHOLOGY IN MODERN STANDARD KHASI

Eugénie J.A. Henderson School of Oriental and African Studies University of London

- 0. When some years ago an opportunity arose of working with a Khasi speaker, I was surprised to discover how close the phonological structure of the language was to Khmer and Old Mon, despite the wide separation of Khasi in time and distance from its Austroasiatic cousins, and its prolonged proximity to the Indo-Aryan languages of the plains on the one hand and to Tibeto-Burman tribal languages on the The recognition of phonological similarities led to a search for morphological similarities also. These are not so immediately apparent and are less striking, but they can be found nevertheless, though the morphological processes that lie behind them are for the most part as dead as those of Old Mon. thoroughgoing study of morphological development in Khasi still remains to be undertaken, but it seems appropriate on this occasion to indicate, in however rough-and-ready a fashion, some of the more fruitful areas for future investigation for the benefit of scholars handling other AA languages.
- O.1. By 'modern Standard Khasi' is meant the educated speech and written language of Cherrapunji. I have had access to three Khasi informants: Miss Namita Shadap Sen (Mrs. A.L. Basham), Miss Renée Jyrwa, and at the time of writing Mr. Ivan Simon who is Deputy Director for Research (Philology), in the

th East Frontier Agency. In the preparation of the sent study, Mr. Simon's professional linguistic erstanding and his knowledge of some of the other si dialects have been invaluable. Indispensable o have been Nissor Singh's Khasi-English Dictioy, Pater Schmidt's Grundzüge einer Lautlehre der si-Sprache, and Lili Rabel's Khasi, a language of am (see References for fuller details). None of se works covers the ground completely. The dictioy has many gaps and some of the glosses are in need Schmidt comes closest to a historical revision. ount of Khasi morphology. He achieved nearacles with the inadequate and often inaccurate erials at his disposal, but working through his k with Mr. Simon (henceforth referred to as IS) ly mistranslations and misunderstandings have come light which invalidate some of his examples, if his conclusions. Rabel's approach is strictly chronic, so that she confines her attention to the vert' morphological aspects of her material and is concerned with the surviving remnants of an ear-

- The material in this paper is arranged under e following heads:
 - 1. Notes on Khasi orthographic conventions.
 - 2. Prefixes.
 - 3. Infixes.
 - 4. Initial consonant variation.
 - 5. Combinations of prefix and infix, or 'reinforced' prefixes?
 - 6. Short-term compounding.
 - 7. Suffixes and final consonant variation.
 - 8. Vowel gradation.

er richer morphological structure.

- Reduplication.
- 10. Sound symbolism.

Morphological 'Sets'.
 References.

noted are as follows:

- 1. Notes on Khasi orthographic conventions
 1.1. The Khasi illustrations in this paper are given in Khasi orthography which, once a few simple conventions have been mastered, is on the whole unambiguous except as regards vowel length and quality in certain contexts. The conventions that should be
 - y between two consonants indicates an anaptyctic vowel, short, unstressed and central in quality, viz [ĭ]. It is used regularly after the first of a three-consonant group at the beginning of a word, e.g. kdong but kyndong. Nissor Singh's dictionary sometimes has spellings with y between the two members of a two-consonant cluster, e.g. kydong, but this is unnecessary. The three-consonant rule appears to be widely adopted nowadays and is adhered to here.
 - y between a consonant and a vowel indicates a glottal stop, e.g. kyang = [k?an]. The dictionary sometimes uses an apostrophe instead, e.g. k'ang. The apostrophe is here reserved for use to show the 'dropped' initial consonant or syllable in a shortform, e.g. 'ti [ti] for kti, 'sang for tyrsang.
 - h is the aspirate initially, but represents a glottal stop finally, e.g. heh = [he?]. After consonants it indicates aspiration of that consonant, except in the case of sh, which is []].
- -id, -it and -in represent a final palatal stop and nasal. -d, -b are used for final [t] and [p] after a long vowel (a Welsh convention), i.e. they indicate preceding vowel length, not voicing of

ifinal stop, e.g. paid = [pa:c], pad = [pa:t], the pat = [pat]. Unfortunately, traditional orthosphic usage is not always consistent in this resect, so that I have used an acute accent to mark agth on a vowel which by regular spelling conventors should be short, and a grave accent to mark a port vowel which the spelling would lead one to pect to be long, e.g. IS pronounced btùid with a port vowel, so I have shown this with the grave cent. (Nissor Singh uses this convention in his ctionary but does not apply it consistently. He so sometimes uses a circumflex accent to indicate wellength.)

The commonest spellings of the vowels are:

i] $ie[e] e[\epsilon] a[a] o[o] u[o] u[o]$ Namita adap Sen, my first informant, agreed with Rabel's formants in pronouncing ie and ú as [e] and [o] fore zero consonant, r and the glottal stop, and as phthongs [i.ə, e.ə] and [u.ə, o.ə] before all other nsonants. Renée Jyrwa and IS, on the other hand, onounce ie and ú as [e] and [o] in all contexts. is simpler vowel system is adopted here whenever it necessary to indicate pronunciation. [e] and [o] e longer than [i] and [u] in closed syllables, nce the use of the length mark over the vowel letter to indicate [o]. The vowel [a] occurs both long and ort, but is not usually marked for length before nants in Khasi orthography. I have tried to indite it here wherever ambiguity could arise by the use the acute accent.

2. The English glosses of the Khasi words cited to there for convenience only. They do not claim to exhaustive, nor are they always as accurate as the more work on Khasi texts might make them. Khasi

has its fair share of polysemy and I have sometimes had to select from a number of meanings the one whice seemed the most helpful illustration of the point at issue.

2. Prefixes

It is necessary first to specify what is meant here by "prefix". Three kinds of formatives are concerned: (1) overt prefixes; (2) prenominal and preverbal particles; and (3) covert or vestigial prefixes. It is the last which are the most interesting from the comparative and historical point of viesince without some understanding of their operation cross-linguistic comparisons would go wildly astray. I shall therefore, like my eminent predecessor in the field, Wilhelm Schmidt, pay most attention to the 'covert' prefixes, after giving a brief account of what is meant by categories (1) and (2).

2.1. Overt Prefixes include such straightforward formatives as nong- and jing-, which take part in prefixation processes which are still active today. Also included are a number of other prefixes such as shi-, mar-, kum-, kat-, hang-, which are more restricted in their privileges of occurrence.

Nong- and jing- are both nominalizing in function. Nong- is usually agentive, but sometimes has the meaning 'inhabitant'; e.g. nongtúh 'thief' (< túh 'to steal'); nongbehmrád 'hunter' (< behmrá 'to hunt wild animals'); nongkha-ii 'trader' (< kha-ii 'to trade'); nong Sohra 'inhabitant of Cherrapunji'; nongkyndong 'person who lives at the back of beyond' (< kyndong 'corner'). (This nong-is not to be confused with its homophone 'nong, the shortened compounding form both of shnong 'village, town' and of rnong 'brass, bronze', as in 'nonglieh

atinum-like metal' < rnong + lieh 'white';
ngrim 'site of abandoned village' < shnong + rim
d'.)</pre>

Jing- is frequently used to nominalize verbs or bal expressions, as in jingtip 'knowledge' (< tip know'); jingialang 'meeting' (< ia lang 'togeth-</pre>); jinglehkai 'toy' (< leh kai 'to do something fun, to play'). Certain variant spellings of this y common prefix may be noted. The Nissor Singh tionary spelling sometimes omits the final g of prefix before a following velar, e.g. jinkhang or' (< khang 'to shut'). It is presumably umed that a nasal before a velar will be pronounced in any case, and need not be further indicated. al g is also sometimes omitted before a following tal consonant, e.g. jintah 'curry' (< jing + tah use as a sauce'), since the final nasal of the fix may here be assimilated to the following t. asionally spellings using the Khasi short unessed vowel y ["] are found, e.g. jynkieng idge' (< jing + kieng 'to sling'), jymbuiñ east, pap' (< jing + buiñ 'to suck'). It seems cely that variants with the y vowel would arise in abilized compounds in very common use, which are vays pronounced with relatively weak stress on the st syllable, and which are almost certainly no nger felt by the speakers to be dimorphemic. IS oorts that many Khasis nowadays make a distinction ween jynkieng 'bridge' and jingkieng 'shoulder

Overt prefixes of less common occurrence inide shi- 'one'; mar~ 'facing, matching'; kat- 'to
ch a degree'; kum- 'like'; hang- 'place where'.

cap (of a bag etc.)'.

E.g. shiktien 'a mouthful' (< ktien 'mouth'); baroh shirta 'all his life' (< baroh 'all', rta 'life').

markti 'hand-to-hand' (< kti 'hand'); markhmat'face-to-face' (< khmat 'face'); marbúd 'one after the other' (< búd 'to follow').

kat-, kum-, hang-, are found before deictic suffixes listed in Section 7. E.g. katne 'as much as this'; hangne 'here'; kumne 'like this'.

2.2. Prenominal and preverbal particles

A number of other forms such as ha 'in, into', na 'from', da 'by, with', which may loosely be compared to English prepositions, frequently behave like prefixes in that they combine with the locative suffixes described in 7.1, and are unstressed in relation to the nouns that follow them. They occur, however, in nominal constructions with a freedom denied to the overt prefixes described above, and are therefore probably best regarded as free forms rather than as affixes. Of the same type are a number of preverbal particles, such as la, ia, sa and the relative ba, and certain rarer particles of the same Ca structure Whether or not to handle such forms as morphological rather than syntactic elements is a matter for debate I have decided to exclude them from the morphology of Khasi for the purposes of the present paper.

2.3. Covert prefixes

More interesting from the comparative and historical points of view are what appear to be the remains of obsolete prefixation processes surviving in the first elements of clusters. To Wilhelm Schmidt, who posited CV(C) as the canonical form of all stems in the Mon-Khmer languages generally (Schmidt 1904,

), the first consonant of any initial cluster was o facto a prefix. This would be astonishing if it e true, but it is not necessary to go to such exmes to appreciate the force of Schmidt's argument t some at any rate of the clusters may have arisen m the juxtaposition or fusion of what Maspéro 12, 82) termed an asyllabic prefix with the initial sonant of the stem. Schmidt pointed out that many ds for body parts, kinship terms, animals and nts begin with a k or kh cluster, which suggests presence of a prefix to denote living things. sider the following, for instance: khmat 'eye, e'; khmut 'nose'; khlieh 'head'; khláb 'spleen'; t 'foot, leg'; klong 'heart'; ksang 'gall'; ksuit s'; kti 'hand'; ktien 'mouth, word'; kpoh 'belly'; ng 'side of the body'; khnap 'hoof'; khllang zzard'; kmie 'mother'; kpa 'father'; kñi 'maternal le'; ktháw 'father-in-law'; klaw 'mother-in-law'; ew 'grandchild'; ksi 'louse'; ksew 'dog'; khnái t, mouse'; khla 'tiger'; ksih 'otter'; kyleng sp'; khñiang 'insect'; ktiar 'centipede'; ksar x'; klew 'peacock'; kbeit 'hawk'; ksaiñ 'maggot'.

The short compounding form (see Section 6 below) all these words is Schmidt's stem form without the efix, viz. 'mat, 'mut, 'lieh, 'jat, etc. In synconic terms this means no more than that Khasi ops the first consonant of a cluster in certain apounds. Support for the view that this consonant in fact all that remains of a forgotten prefix mes from related languages, in which the cognates the words concerned appear in the simple form. It ems more probable that this simple form represents a word-base without a prefix than that so many

lely separated languages should independently have

Compare the cognates of six items from the list of Khasi examples listed above: (Khmer forms, in transcribed pronunciation, from Judith Jacob. Mon, in transcription of modern pronunciation, from H. L. Shorto, with spelling shown in italics where especially relevant. Vietnamese in orthography (italic). 'Palaung Group' forms from H. L. Shorto. This Group includes Palaung, Riang-Lang, Praok and Theng. 'MK of Vietnam' stands for the Mon-Khmer tribal languages of which word lists are given in Thomas, 1966, and Wilson, 1966. Mường from Wilson (see above) and

dropped the first consonant of an original cluster.

	1966. Mucker, 1966		n Wilso	on (see	above)	and
	Khmer	Mon	Viet	Mường	Palaung Gp.	MK of Vietnam
'eye'	[phnè:k]	mòt	mắt	mạt	măt	mat, mũh măt, mukh meất, mõh mañ, moat, măt
'nose'	(crə)moh	mùh	mũi	mũi	mu, -mur, -muə	mui, mu muh, moh, mựh, mũi
'foot'	c¥:ŋ	càn	chân	chơn	con, jwn, caon	jơng, djong, chơn
'hand'	day	toa (<ti)< td=""><td>tay</td><td>thay</td><td>ti, -ti? tay</td><td>ti, taii, tai t'i atai, dăi tey atêi</td></ti)<>	tay	thay	ti, -ti? tay	ti, taii, tai t'i atai, dăi tey atêi
'louse'	cay	coa	chi	chí	se,	ch'i,

(<ci) châv

-si?.

s i

chai.

si

	Khmer	Mon	Viet	Mường	Palaun Gp.	g MK of Vietnam
g¹	chkae	k 13	chó	chó	-so?,	cho, ch'o, tyo, so chó, acho
	As has bee	n point	ed out	in Hend	lerson 1	.973,

ere is a phonological rule inhibiting the sequence homorganic consonants in initial sequences, so that by parts, kinship terms, etc., whose stems begin the a velar consonant cannot have a velar prefix. In a velar consonant cannot have a velar prefix. In a velar consonant cannot have a velar prefix. In a velar consonant cannot have a velar prefix. In a velar consonant cannot have a velar prefix. In a velar consonant cannot have a velar prefix. In a velar consonant cannot have a velar prefix. In a velar consonant cannot have a velar prefix. In a velar consonant cannot have a velar prefix. In a velar prefix. In a velar cannot have a velar prefix. In a velar prefix. In a velar prefix. In a velar cannot have a velar prefix. In a velar prefix. In a velar cannot have a velar prefix. In a velar p

5. Not by all means all Khasi words beginning with

cor kh- cluster can be plausibly regarded as manisting the same velar prefix as that postulated ove; nor is it perhaps necessary, as Schmidt does, seek or expect to be able to suggest a single, iginal 'meaning' or function for such prefixes as y have existed. There may be traces, for example, a verbal velar prefix in such pairs as law 'to see off, loosen', khlaw 'to take out, gouge out'; ng 'to pull, drag (in physical sense)', khring 'to aw towards one in a less physical sense, e.g. to a someone over'. Furthermore, until we have an thoritative statement of the initial cluster system. Proto-AA it is inevitably difficult to sort out usters from prefixed stems, especially since Khasi eakers themselves are no longer aware of 'covert'

efixes as morphological elements. There are,

however, enough examples of morphological 'sets' to support strongly the theory that at one time a fairly extensive system of prefixation existed. Compare for example:

> tnat 'branch, twig', pnat 'forked branch, prong', 'nat (short form of tnat). Also, thnat (1) 'having a branched finger or toe', (2) 'cockspur'.

2.6. One of the prefixes of which one would certain expect to find traces is the widespread AA labial prefix, which frequently has causative-transitive function. 2 Such traces do in fact exist, although the causative forming role in Khasi has been very largely taken over by the formative pyn-, of which more is said in Section 5. Vestiges of a possible simple p- or b- prefix are given below:

intr. and tr. dem 'to lie down, to bend, pdem 'to incubate' to bow' lait 'to be free, to escape' pláit 'to open out, clear away'3 tuid 'to flow' 'to slip, be btùid slippery'

phrung 'to penetrate'

'to cover with

rung 'to enter' (intr. only)

súh 'to thrust, (sew)' bsúh 'to push in, to intrude'

tep 'to bury' earth, put int the ground' to lay one on tap 'to cover' btap top of the other'

btep

Possibly also:

tah 'to smear' bta 'to wash the face; to besmear the face with'

(Alternation of final glottal stop (orthographic and zero consonant within related pairs of words is nd elsewhere, e.g. in the verbal auxiliary partisla and lah, sa and sah.)

The factor determining whether a p- or a b- is d appears to be dissimilation of the voice feature, reby b- is preferred before voiceless stem ini1s, and p- before voiced ones (see Henderson 3).

. IS has drawn my attention to the following set words, which he feels may be related:

'layer'; bsap 'to insert (e.g. into the middle

a heap); bsiap 'to insert (more softly and delicely than bsap, e.g. a piece of paper between the
aves of a book). If we accept that bsap and bsiap
e morphologically related in some way, are we to
opose that in bsiap we have an instance of an -icix? An interpretation more compatible with what
found elsewhere in the language would be that we
we here an instance of the kind of phonaesthetic
e of vowel alternation that characterizes some types
reduplication and adverbial expressions. Compare
so tiak, describing a very light touch, with tak,
ed of a former contact; also liap-liap, used to
scribe a cat lapping milk, as contrasted with lapo which IS feels is more suitable for a dog (see
ections 8, 9, and 10).

The form bsa 'to feed' sets one searching for a cresponding sa 'to eat', of which there are wide-read cognates in the AA languages generally. Stand (i.e. Cherrapunji) Khasi has no such form, wever, the word for 'to eat' being bam. According

IS, however, sa forms are found in some Western

Khasi dialects. A simple labial causative (or other prefix is, if it ever existed, certainly now dead as a morphological device, the overwhelmingly common causative formative nowadays being pyn-, which is discussed in 5.4.

2.8. One or two words suggest a possible former sprefix. Compare ngáb 'cheeks' with sngáb 'gills'; khem 'to press, squeeze' and khim 'narrow, compresse with skhem 'to be firm, tight, compact'; ngam 'to submerge' with sngem 'moist, damp'; tait 'to reject' with stait 'chaff'; tah 'to remove bark of a tree' with shtah or stah 'to shave (wood)'. There is also alongside tuid 'to flow' and btùid 'to slip' (see above), the form syntuid 'to slide'. If tuid is tak as the stem, then the preceding syllable may represe prefixed s- plus infixed -yn- (see Section 5).

Looking at other AA languages, one can see that some fixes probably survive in some instances where Khasi no longer has a comparable unprefixed form, except in compounds (see Section 6). Conversely, so Khasi dialects show some where standard Khasi now has none; e.g. Mnar dialect [smit] 'night', Standard miet Mnar [smou], Lamin [smya] 'stone', Standard maw.

					•	Gp .	Vietr
'day, sun'	sngi	thŋay	noa (∽ni)	ngày	ngày	səŋi? siŋay	ngay, to'nga tangay hany
'leaf'	sla	sl¥k	hla?	lá ·	۱á	hla, -la?	la, là

Khasi Khmer Mon Viet Muong Palaung MK o

hala, sala, asoq . Not all the prefixes postulated by Schmidt were yllabic'. Khasi has a large number of disyllabic ds in which the first syllable consists of a simple tial consonant followed by a short vowel, a, i, or Many of these words are clearly loans, from Hindi Bengali for the most part. Before any useful culations can be made as to the possibility of some these disyllabic words containing prefixes it will necessary to sift the loans from the indigenous ms. Only Rabel (1973) has so far done this with degree of thoroughness. Nissor Singh notes some n words but by no means all. Some of Schmidt's gestions seem nevertheless worth pursuing. He es a number of cases in which there appears to be refix consisting of a consonant followed by the el a. In some of the instances he gives, the efix' is one of the preverbal elements discussed Section 2.2. In others IS was persuaded that we ht well be dealing with a vocalized prefix, e.g.atien 'doutful', which is presumed to be from ar o' + prefix ta + tien (the short compounding form ktien 'word'); dadait 'itchy', (cp. dait 'to itch'), ien 'backwards'. Of da- IS feels that it carries sense of two things going on at the same time. n more convincing is the postulation in some words a prefix pa- which IS felt to have iterative force. pare: teng 'time, occasion', pateng 'generation'; d 'to hit', patied 'to keep on hitting'; doi-doi and fro', padoi 'to see-saw (with the feeling of stant repetition)'; dún (dialectal) 'to tilt', ún 'sloping'.

There is also ta- in tawiar 'in a circle' (cf. gwiar 'circle'), and ma- in masi 'bull, cow, ox' ort compounding form 'si), makia 'vagabond', maloi

'coconut shell', etc. This ma- is perhaps to be related to the ma- which is sometimes prefixed to pronouns, e.g. ma-nga 'as for me, I...', etc. Note also the form mano 'who?' (? ma- + -no. See 7.1).

3. Infixes

3.1. Any traces of infixation in Khasi are of partiular interest for comparative purposes since this process is of all others characteristic of the AA and the Austronesian language families, as contrasted witheir neighbors. Infixation in Khasi is no longer a live process, but there are vestiges here and there of infixes on the AA model. The commonest infix is nasal, written -yn-, -n-, or -yng according to phone tic context. The effect of this infix is frequently to nominalize, but it is sometimes used to create semantic near-doublets, in which one of the pair is restricted to a more specialized aspect of the gener meaning common to both.

Examples:

sap

shong	'to sit, dwell'	shnong	'place, vi lage, tow
sád	'to comb'	snád	'a comb'
lyngkot	'short'	lyngknot	'low stool or table'
kdong	<pre>'corner (in sense of place of ambush; opportunity)'</pre>	kyndong	'corner'
dkoh	'lame'	tyngkoh	'to hop (a in hop- scotch)'
kjat	'foot'	kynjat	'to kick'
briew	'man, person'	bynriew	'Man, man- kind'

snap

'inborn talent

or skill'

'inherited

trait'

súr	to spread (something sticky)'	snúr	'(spider's) web'
ksháid	'waterfall'	kynshàit	'to gush out'
ktien	'mouth, word'	kyntien	'morsel, word'
shiktien	'a mouthful'	shikyntien	'a morsel'
khap	'to pinch or hold between tongs'	khnap	'pliers, tongs'
kti	'hand'	kynti	to pound with the fist'
(krem) kroh	'straight face of a cliff, cave'	kynroh	'wall'
trai	'root'	tynrai	'root, source, origin'
kup	'to put on, wear'	knup	'basket rain-shield that rests on head; tortoise shell'
sait	'to wash, $e.g.$ vegetables'	snait	'a strainer'
kham	'to seize, hold in the hand'	khnam	'arrow'
lter	'lengthwise'	lynter	'a length'
kdat	to make a detour, avoid direct route'	kyndat	to thrust to one side'

In the above examples the infix can readily be constrated by comparison with a corresponding non-ixed form. Another less obvious pair suggested by midt is her 'to fly', sner 'feather, wing'.

- 3.2. Comparison with related languages suggests tha other Khasi words may contain old nasal infixes, even though the non-infixed forms have not survived in Khasi itself. An example of this is shñiuh 'hair', which has the following cognates. Khasi final -h (= glottal stop) corresponds regularly to final -k in other AA languages: Khmer sok; Mon sok; Viet. to Palaung Group hu?, -huk, haak; Mon-Khmer of Vietnam sák, suk, tok, sok, sãk; Mường thák, sák. Compariso with other Khasi dialects may also be fruitful, e.a. Mnar [su?] 'hair'. IS point out that bnoh 'pole wit a crook used to cut off dead branches, etc.' is clearly the infixed noun corresponding to standard Khasi woh 'to hook off (dead branches, etc.)', Pnar dialect boh. (The cluster wn- is not permitted in Khasi. See Henderson 1973.)
- 3.3. Traces of nasal infixes in Khasi are rare enough; traces of other infixes even rarer. A possible - | infix may account for the pairs khái 'to pluck with the nail', khlái 'to pluck with the thumb and nail (as in dehusking maize)'; shur 'to venture' shlur 'brave, heroic'. r- infix is apparent in the pairs bnái 'moon', phyrnái 'to shine brightly'; kmen 'to be joyful', kyrmen 'to hope'. There is also the interesting case of ker 'to fence', with two related nominal forms, jingker 'a fence', using the 'overt' nominalizing prefix jing-, and kper 'garden, compound', with what appears to be a labial infix. Compare Khmer kbas(r) 'edge', Palaung kərbum, Praok sipum, Lawa raphuum, aphuum 'fence'. There is also the curious case, possibly coincidental, of raid 'stunted, dwarfish', rakaid 'dumpy, short (used adverbially, as in iaid rakaid 'to waddle, like a dwarf or very short person'), which suggests a velar

ix. It is not, however, usually supposed that -Khmer languages have -k- infixes, so that such radic pairs must be regarded with caution.

Initial consonant variation

. Most instances of initial consonant variation, . pnat, tnat, and thnat (see 2.5), lend themselves interpretation in terms of prefixation, but occanally cases are found where this interpretation s not seem plausible. Explanations must perhaps n be sought in earlier sound changes such as those cussed by Maspero (1912, 82, 85) by which Proto-VM uid clusters have given rise in Mường to such uences as kṣ, ṭṣ, or to simple aspirated plosives, sometimes to simple sibilants. (Cp. the developt of seventeenth century Tonkinese bl- and tl- to ricates and fricatives in modern Vietnamese.) In light of these attested developments, it is pers not too fanciful to propose that there is a nological/morphological relationship between such s as the following: n 'sturdy' 'to grow up' san

'to gush out, еi shlei 'to overflow' (bleed) profusely' 'to spread (tr.)' ·iang 'to spread out siang (intr.)' i 'moon' shái 'to be light' rnái 'to shine brightly'

For parallels to the last set of forms see pero 1912 and also Henderson 1966.

The form die 'to buy' beside thied 'to sell'
e also Section 7) suggests that there may have
n an earlier use of the voice/voiceless distinction
a means of grammatico-semantic differentiation
iniscent of certain processes in the Sino-Tibetan

languages. Possibly also of this type are pairs of words suggesting a former relationship (of voice versus voicelessness?) between what are now initial and h- as in sáw haiñ 'to flush', sáw laiñ 'to redden with anger'; byrhien 'in a moving mass', byllien (< byr + lien ?) 'in very great numbers?' Byrhien and byllien are adverbial expressions very close in meaning. IS had difficulty in pinning down the difference between bún byrhien and bún byllien, both of which could be translated 'in very large numbers'. His impression was, however, that whilst in bún byllien the 'large numbers' might even be static, in bún byrhien there is the suggestion of orderly movement as well as large numbers, e.g. a mass of people moving in orderly fashion in one direction.

5. Combinations of prefix and infix, or 'reinforced' prefixes?

5.1. The relative rarity of demonstrably infixed forms in Khasi, which might in itself seem surprising is offset by the very large numbers of words of the structure $C_1(y)$ $C_2C_3V(C_4)$, which have the unstressed wowel y in the pretonic syllable, and in which the second consonant is always either a nasal or a liquid Such words, though phonetically disyllabic, are phonologically best regarded as $C_1C_2C_3V(C_4)$ structures. (This is the treatment proposed for Khasi by Rabel and by Judith Jacob for Khmer.) If one accept Schmidt's hypothesis that the canonical form for stems in the language is $C_3V(C_4)$, then C_1 may be supposed to be a prefix, and C_2 an infix. Formally such words are indeed indistinguishable from infixed forms of the bynriew, kyndong type, $e\cdot g\cdot$

```
'to fall'
        khvllem
                          'earth'
        khyndew
                          'female'
        kvnthei
                          'new'
        thymmai
        tyllái
                          'rope'
                          'flower'
        syntiew
                          'nail, claw' etc., etc.
        tvrsim
as of this pattern frequently have a 'short com-
nding form' corresponding to the 'stem', e.g.
ewsngi 'sunflower' ( < syntiew + sngi 'sun');
wiong 'coal' ( < khyndew + iong 'black'); 'theiiáw
derly woman' ( < kynthei + iáw 'old'). There seem
d grounds for assuming either that many such words
fossilized examples of the morphological type:
```

FIX + INFIX + STEM, where no simple forms happen have survived, or that they are examples of words which infixation has taken place between the two sonants of the initial cluster of some now defunct in form. This does not account for all words of some phonetic shape, however. It is clear that some live from former compounds in which the first elethas become unstressed to the point at which it

indistinguishable from the pretonic syllable of

Examples are:

ixed words.

khyllung 'baby' < khún 'child' + lung 'tender' khynnah 'child' < khún + unidentified second element (See meinah 'younger aunt'; W. Khasi nahlung 'baby')

rympei 'hearth' < -rum 'under' + dpei 'ashes'</pre>

first two examples above are still sometimes

It khunlung, khunnah. Rympei would be suspect as

'infixed cluster', since rp- does not occur

elsewhere as a permitted initial sequence. (See Henderson 1973.) Words such as nyngkong 'first', lyntang 'plank' are also suspect for the same reason. (But see Section 10.2.b.) Possibly one must also posit the existence of monomorphemic words with prefix-like pretonic elements of the structure CyN-. Only extensive and exhaustive comparisons with other AA languages can determine just how many such monomorphemic words there are in modern Khasi.

5.2. Schmidt's approach (692 ff.) to the problem is to assume two steps in the morphological construction of such words. The 'first stage' is the addition to the stem of a simple prefix, as in the examples cited in Section 2. The 'second stage' sees the infixation of a nasal or liquid between the prefix and the stem (with anaptyctic vowel between prefix and infix),4 thus forming what Schmidt calls a "verstärkte" form of the prefix which I will here refer to as a reinforced prefix. In practical terms, the initial sequence C, yC, - functions as a single prefixual element whatever its ultimate morphological origin. Thi is well illustrated by the pair of words jynrat 'to uproot (e.g. grass, bushes)' and kynjrat 'to uproot with force'. The first word is presumed to be an example of a nasal infix embedded in a form jrat, which could be further analyzed as j- prefix + a stem rat. There is in fact a word rat, which means 'to uproot, in the sense of demolish, e.g. a building.' (Compare Khmer rws; Mon r3h; Viet. re; Palaung Group rier, ries, rie; MK of Vietnam rê, riah, reh, diyeh, hrex, reh, re, ria, all meaning 'root'.) In the second word of the pair, kynjrat, it does not seem plausible to postulate an intermediate state *kjrat, followed by infixation between the k and the j; the

n- appears to be prefixed directly to a form jrat, the chart first sight was thought not to exist. There no such noun or verb in Khasi, and no word of this is noted in Nissor Singh's dictionary. IS corts, however, that there is a supposedly "phonathetic" adverbial form jrat, used after the verb it 'to pull out, extract'. The expression phut jrat gests the extraction or pulling out of something evicusly rooted, e.g. a tooth. Here, it appears, is it "missing" prefixed stem--an illustration of how reful scrutiny of forms often dismissed as "imitates" or mere "expressive" words may sometimes bring light forms of broad historical and comparative therest. The derivation of the forms jynrat and a sjrat is assumed to be:

Sometimes a 'reinforced prefix' occurs often ough in a semantic group to prompt attempts to asam a specific meaning or function to it; at other mes no correlation of any kind springs to mind, and e choice and use of the prefix appears quite random. Ong reinforced prefixes of the first kind are mynsed to refer to present or past time), hyn- (used of a past only), kyn- (used to verbalize exclamations e.), byr- (used to 'dilute' colours and tastes), mg-/lym-/-lyn- (found in a number of bird names), it, most important of all, pyn-, the prefix most mmonly used to form causatives and benefactives.

(a) Examples of myn- (? < prefix m- + infix -n-)

mynmiet 'night time, at night' Cp. ka miet 'the nigh

mynsngi 'daytime, during the day' Cp. ka sngi 'the sun'

mynta ka miet 'tonight'

Myn- is also found before another prefix in expressions such as mynshisngi 'the day before yester day', mynhynnin 'yesterday', and mynnymwei 'last year'. Note that in the last example the pretonic syllable nym is presumably in origin a weakened form of 'nem, the short compounding form of snem 'year'. IS pointed out that whereas Standard Khasi uses mynto refer to present or past time, the Pnar dialect uses it for future time also, e.g. Pnar mynstep 'tomorrow'. There are, it should be noted, a number of words with a prefixed myn- which do not appear to be connected in sense with the temporal expressions above. Examples are mynsáw 'to have an accident'. mynsiem 'spirit, soul', mynthna 'mithan'. There is also according to Nissor Singh ('Explanatory notes', IV) a prefix myn- used in much the same sense as nong e.g. myntúh 'thief', mynpang 'a patient'. IS recognized the existence of this but claimed that it is rarely used, as it has derogatory meaning, possibly derived from 'men, short form of tymmen 'old'. 'Mynpang' might be used to refer to a malingerer or to a patient in a repulsive condition.

(b) Examples of hyn-: (? < prefix s- + infix -n-)

hynnin 'yesterday' hyndái 'in ancient times' hynne 'a short time ago' esumably unconnected with the above are hynrohead', hynmen 'older sibling', hynniew 'seven', nriew 'six'. In the last two, the first syllable be a derivative of san 'five'.

- (c) Examples of kyn-: kyn- is a very common mative for both nouns and verbs. There is a ecial subclass of verbs in which kyn- is prefixed to exclamation of some sort, e.g. kynha 'to make a artled exclamation' (< ha an exclamation of artled surprise); kynhoi 'to shout in triumph' < hoi an exclamation of triumph); kynphuit 'to spit</pre> contempt' (< phuit imitative of spitting). Peros kynjrat also belongs to this subclass (see 5.2). e dictionary lists further forms kynsnok 'to snore'; nkhlok 'to sniff'; kynkhlek 'to brandish, flourish' khlek expressive of a bright flash) (see Henderson 55a). kyn- is also used before forms of address, g. kynpha 'to address (a man) with the fem. singular onoun pha'; kynme 'to "thou" someone (male), to iress with the familiar masc. sing. pronoun me.' is appears to be a live process.
 - (d) Examples of byr- (? < prefix b- + infix -r-)

Compare lieh 'white' byrlieh 'whitish'
saw 'red' byrsaw 'reddish'
thiang 'sweet' byrthiang 'sweetish'
jew 'sour' byrjew 'sourish'
etc.

When asked, IS said he didn't use byr- forms repersonal attributes such as height (i.e. no byr-rm corresponding to English 'tallish', etc.) but he lt it just possible that someone could create such rms, and that he would readily understand them. is suggests that this morphological process is not

quite dead. Other expressions which perhaps belong here are byrtun-byrten 'uneven, lumpy (as when one ha hives)', byrngut-byrnget 'hazily, dimly' (compare jngut 'turbid, obscure'). (For reduplication with vowel gradation see Section 9.)

(e) Examples of lyng-/lyn-/lyn- (? < prefix 1-+ infix -nlyngdkhur 'dove'

lyntait 'swallow'
lyngngem 'turtle dove'
lymbit 'bat'

Note also langbyrkáw 'green pigeon', which IS feels to be of the same set. Langdkhur is a variant of lyngdkhur for some speakers.

Very active indeed is the use of the causative/

5.4. The formative pyn-

benefactive formative pyn- which, whatever its origin (perhaps as a combination of the p- prefix + -ninfix), now operates as a single element, which can be prefixed to all stems. It is noteworthy that the nasal in pyn- is less liable to assimilate to the following consonant than is customary with other prefixes, unless the following consonant is |-, when the resulting form is usually py||-.

Examples of the causative use of pyn-

beit	'straight'	pynbeit	to straighten, correct'
iap	'to die'	pyniap	'to kill'
tieng ⁵	'to be afraid'	pyntieng ⁵	'to frighten'
hap	'to fall'	pynhap	'to fell'
long	'to be'	pynlong	'to create'
; 5	'to see'	pyni ⁵	'to show'

	'to arrive'	pynpoi	'to send'
t	to be free,	pyllait	'to liberate'
	to escape'		etc.

mples of the benefactive use:

ed	'to buy'	pynthied	to buy through another'
i	'to say'	pynong	'to deliver a message'
1	'to deny'	pynlen	to deny through another'
∍n	'to speak'	pynkren	'to speak through or for another'

pyn- may be affixed to recent unassimilated ins. For instance, pyn-'repair' is used benefactely for 'to repair (a car) for someone'.

There is also a reinforced prefix byn-which ght at first encounter appear to be a phonetic riant of pyn- (cp. p- and b- in 2.6). On closer amination of its use, however, it may be said to by a 'particularizing' effect rather than a causate one:

7 •	shet	'to put down a load, set down		'to set down a load'
	rap	'to help'	bynrap	'to side with, contribute to, etc. (i.e. a specialized kind of help)'

IS found it very difficult to express the otleties of the difference between shet and bynshet, t feels that the latter is more commonly used.

He has companion pyn- forms for both bynshet and nrap in which the pyn- is benefactive in effect,

5.5. Common reinforced prefixes in which the hypothetical infix is -r- are illustrated below:

dúh 'to lose' kvrdúh 'to lack' shán 'to support' kyrshán 'to prop up' 'to whet' 'to rub' shut kvrshut 'to ooze' 'to emit' sei kyrsei tied 'to strike' 'to thunder' kvrtied 'to be straight' kyrbeit 'to be warped, beit distorted' 'to wander' 'to try out, to shang pyrshang explore'

pyrthúh

This phenomenon in Khasi appears to be a much

simplified version of a type of word-formation that

kyrsuh

'to imitate'

aw1)'

'to bore (with a

6. Short-form compounding

'to recognize'

'to thrust into' tyrsúh/

i-thúh

súh

was being investigated three or four years ago by Zide and Shapiro (1968). Zide and Shapiro report that in the Munda languages it was found that certain nominal roots appear in two distinct forms: a long form which can be either monomorphemic or bimorphemic and which occurs in free position; and a shorter combining form derivable from the longer one by certain regular morphophonemic rules. (See also Zide, Arlene 1973.) This describes the position in Khasi very well. Nominal roots so affected always have a long form which is either disyllabic (usually of the type CyN/LCV(C) where N/L = 'either a nasal or a liquid') or which begins with a consonant cluster. Whether one regards such words as monomorphemic or bimorphemic depends upon whether one accepts the view that the elements

eceding the final CV(C) are separable morphological ements or not (see Sections 2 and 5). The rule for e formation of the short form is extremely simple: e short form consists of the last CV(C) sequence of e long form. This sequence is not necessarily the me as the stem without affixes, since if the second nsonant of a CC- initial cluster is an infix. this fixed consonant will appear as the initial consonant the short form (see examples at 6.3 below). 2. The commonest kind of short-form compound is one which the first only of the two elements (usually 'daily wages' 'price, < sbai value' + sngi 'day sun' 'canine tooth' 'tooth' + < bniat ksew 'dog' 'middle finger' 'hand' + < kti pdeng

uns) is in the short form: amples of $CCV(C) \rightarrow short form CV(C)$: aisngi iat ksew ipdeng 'middle' 'jungle' + áw bah 'forest' < khláw bah 'big' 'sheep' < blanq 'goat' + angbrot brot 'bronze' (?)a-bam-briew 'man-eating tiger' < khla 'tiger' + bám 'eat' + briew 'man' iang khláw 'wild pig' 'pig' + < sniang khláw 'jungle'

'village' +

'arrow' +

phiah 'split'

'earth' + iong 'black'

'fern' +

ksiar 'gold'

'woman' +

iáw 'old'

'egg' + kha to be born'

Such com-

rim 'old'

6.3. Examples in which the infixed consonant becomes the initial consonant of the short form:

nonarim, 'site of aban-< shnona doned village' 'namphiah 'single-headed < khnam

arrow'

6.4. Examples of $C_{VN}/LCV(C) \rightarrow CV(C)$ 'coal' 'dewiong < khyndew

'thei-iáw

'lengkha

ened.

'golden fern' 'khangksiar

'elderly woman'

'fresh egg'

Note that masi 'cow, bull, ox' has a short compoundin form 'si which perhaps supports the view that the mais to be regarded as a prefix. 6.5. Occasionally noun-noun compounds are found in

which both elements are in the short form. pounds are very much rarer than the compounds

described above in which only the first noun is short Examples of $C_1C_2V(C) + C_1C_2V(C) \rightarrow C_2V(C) + C_2V(C)$

< tyrkhang

< kynthei

< pylleng

(See 2.9.)

'grass' + shñiuh 'hair'

'lanañiuh 'bearded grass' < phlang 'finger joint' 'mat'ti < khmat

'eye' + kti 'hand' 'ñiuh'mat 'eye lashes' < shñiuh 'hair' + khmat 'eye'

a'liar 'top leaf' < sla 'leaf' + kliar 'top'

6. Also infrequent are compounds in which the cond element only is shortened. Examples:

pwái outer bark of 'bark' + < dop areca-nut tree' kwái 'areca nut' '?' + khmat 'evelids' mat < ir 'eye' 'angle, corngkor back of the < dong ear' ner' + shkór 'ear' ongdongjat 'heel' < syngkhong to support from below' + dong 'angle, corner' + kjat

I have so far been quite unable to discover at are the rules which govern the types at 6.2, 6.3, 4, 6.5 above and determine which form of compounding all take place. A possible reason for the shorting of the second rather than the first element in e type at 6.6 is that the first elements in all ese compounds have only one initial consonant (the onsonant' preceding ir is glottal onset) and so nnot be shortened in the usual way.

'foot'

7. Yet a fourth compounding process must be menoned here, namely one in which neither element of a un-noun compound is shortened:

' ? ' + kt

'hand, arm'

'foot' +

sngi

'sun' 'yew tree' 'pine' + ksehblei < kseh blei 'sebblei 'god' 'ivorv' bniat-hati < bniat 'tooth' -hati 'elephant' 'village'shnonakvndona 'out of the < shnona way' kvndona 'corner' (ksang here may possibly be connected with ksang in 'dewksang 'tightly packed subsoil', hence ksang may refer to something hard and potentially powerful.) All the elements in the above except hati, whic is an Indic loan, have regular short compounding forms. Why these should not be used in these particu lar words is unexplained. Sometimes variation in the compounding process is a means of differentiating

'forearm' < ksang

'sun's rav' < kiat

e.g. ksangkti

kjatsngi

meanings. It is possible, for instance, that the first element of shnongkyndong 'out-of-the-way village is not shortened so as to keep it distinct from nongkyndong 'inhabitant of an out-of-the way village' Compare here minsngi 'sunrise' with min'ngi 'east', both derived from min 'to rise' + sngi 'sun'; similar ly sepsngi 'sunset' and sep'ngi 'west', from sep 'to go down' + sngi 'sun'. Note that there could in any case be no short form of the first element here, as there is only one initial C. The differentiation, if any, must therefore come in the second element.

Suffixes and final consonant variation

1. Suffixation was dismissed by Schmidt (681) as ing non-Khasi and, in fact, non-Mon-Khmer. This pends, I suppose, upon what one means by suffixation.

Khasi has a number of deictic and locative forms ich occur suffixed to the 'prenominal particles' ferred to in Sections 2.2 and 2.3, or to one of the ticles ka (feminine), u (masculine), or i (diminuve). Examples after the particle ha- include: haei here?', hajan 'near', halor 'on, over', hano 'to om?', hapoh 'under, within', harum 'below', hato hen', badien 'behind, after', haduh 'up to, as far

Examples after the article ka include: kael hat?', kane 'this', kano 'which?', katai 'that', thie 'that down there', katei 'that up there'. I do t propose to examine these forms further in this per.

2. A morphological feature of more comparative inrest is provided by the future and negative formaves yn and ym which are suffixed to pronouns, e.g.

U[n] sa wan He will come presently.

Cp. U wan He's coming.

Ki jingthung baroh ki[n] duh

All the plants will die.

Balei u[m] wan shuh katta ruh?

Why has he not returned yet?

3. The way in which these asyllabic suffixes alter e syllable structure of the words concerned, in a rphological process which is still very much alive, ovides a possible clue to the understanding of cerin other forms in which the syllable-final consonant otherwise unexplained.

Compare: kti 'hand' with btin 'to lead by the hand', rtin 'clinging', kynti 'to pound with the fist'. There is a strong suggestion here that the stem ti 'hand' forms the base for all these forms,

stem ti 'hand' forms the base for all these forms, which show the remains of obsolete affixation in their initial and final consonants, viz. kti = prefix k-(see 2.3) + ti; btin = prefix b- (see 2.6) + ti + suffix -n; rtin = prefix r- + ti + suffix -n; kynti = prefix k- + infix -n- + ti. It is not of course implied that the hypothetical suffix -n in two of these words is to be equated with the still active future

7.4. A handful of other examples of final consonant variation may perhaps also have a morphological origin. Oompare:

~ [-t] (For initial consonant alternation, see 4.2. For implications of spelling -d, see 1.1.)

die 'to buy' thied 'to sell'

plie 'to open' plied 'to prise open'

bthi 'to stick' bthit 'sticky (e.g. of
gum)'

[?] ~ [-t]

[?] ~ [-t]

khmih 'to look' khmied 'to look up'

bsúh 'to penetrate, bsùt 'to force a way
 push one's way
 in, to pene trate with
 force'

8.1. There are hints here and there of the remnants

Vowel gradation

8.

suffix described in 7.2.

of some system either of vowel ablaut used directly as a morphological-cum-semantic device, or perhaps of

vowel umlaut, i.e. a process in which the vowel variation is to be accounted for in terms of phonological laws relatable to other features in the phonological

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clude alternations of quality only, as [a] ~ [e],
quality correlated with quantity as in [i] ~ [e],
] ~ [o]<sup>8</sup>, or, before a final palatal, of quantity
one, e.g. [a:] ~ [a], [u:] ~ [u].
    Examples: (For final consonant variation, see
                 7.4.)
    [i] ~ [e]
    khmih
              'to look', khmied 'to look up'
              'narrow, compressed', khem 'to
    khim
                squeeze', skhem 'firm, tight, com-
                pact.' (For initial s- here, see
                2.8.)
    [u] ~ [o]
    bsùt
              'to penetrate with force, force a way
                in', bsúh 'to penetrate, push one's
                way in'
    [a] ~ [e]
              'to sink', sngem 'moist, damp'
    ngam
    [a:] ~ [a]
    ksháid
             'waterfall' kynshàit 'to gush out'
    [u:] ~ [u]
              'to flow', btùid 'to slip', syntuid 'to
    tuid
                slide'
2.
    Khasi is enormously rich in reduplicative (see
ction 9) and adverbial expressions containing a
nsiderable degree of sound symbolism both in conso-
nt sequences and in the vowels used. Some of this
und symbolism is probably universal, e.g. the use
[i] to refer to small, light things, and young
rsons; some of the symbolism, however, seems to be
ecific to Khasi and is apparently readily recognized
Khasi speakers, even in expressions hitherto unfa-
liar to them. Following J.R. Firth (1935), I shall
se the term 'phonaesthetic' to apply to this
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vironment, now disappeared. The few examples noted

symbolic use of sounds, since the reference is not only onomatopoeic but relates also to size, age, weight, bulk, height, clumsiness, daintiness, etc.

Lili Rabel (1961, 113) has made the only serious attempt so far to pin down the general meaning of these phonaesthetic vowel alternations and suggests the following rough guide to usage:

- [i] refers to small and light things, young persons.
- [ϵ] refers to tall or big things and persons, grown-ups.
- [a:] refers to ungainly and stout persons or objects.
- [o] refers to small and feeble things, animals, objects.
- [u] refers to big, heavy, old persons, animals, and things.

Phonaesthetic phenomena of this kind will be familiar to anyone working in the AA or Sino-Tibetan field, and are closely linked to reduplication which will be briefly dealt with in the following section.

9. Reduplication

9.1. Reduplication is an extremely productive morphological process in Khasi, as in many other languages of the Indo-Pacific area. Looking through the forms listed in Nissor Singh's dictionary (which can only contain a small proportion of those in current use) have found that my Khasi informants (a) did not alway recognize them, but could readily conceive of the general sense in which they would be used; (b) recognized them in the given form, or a form very close to

but with a slightly different meaning from that ren in the dictionary, and (c) were often inspired produce further variants on the same theme, togeer with fairly specific indications of the contexts which they would be used. This suggests to me that e process is still very much alive and that whilst ere are certain generally accepted guidelines, the ner details of association and reference are to some tent idiosyncratic. The whole topic deserves far re serious attention than I have been able to give , both from the stylistic and semantic points of ew, and also from the historical point of view, in at some of the "meaningless" partners in such exessions may, as Lili Rabel points out, be survivals older free forms now extinct. The most detailed d systematic account of such expressions so far dertaken is Rabel (1968) of "Redundant Expressions Khasi", to which readers are referred for further

2. A special kind of reduplication mentioned in bel (1961, 104) is illustrated by the expressions low:

formation and a wealth of examples.

haei-re-haei

leh-pa-leh

- (a) nano-re-nano 'from someone or other' cp. nano-nano 'from anyone'
 - haei-haei 'anywhere' kumno-re-kumno 'somehow or other' cp.
- kumno-kumno 'anyhow'
 (b) hai-pa-hai 'slowly, bit by bit'
 - jai-pa-jai Ditto suki-pa-suki 'slowly and gradually'
 - 'to carry on doing something (e.g. when asked not to)'

'somewhere or other' cp.

- (c) junom-la-junom 'from age to age'

 pateng-la-pateng 'from generation to generation'
- (d) tik-shi-tik 'incessantly'
 tam-shi-tam 'more and more'
 leh-shi-leh 'to do something incessantly'
- (e) hak-na-hak 'uselessly, without purpose'

Rabel refers to the formatives re, pa, la and shi above as 'interfixes'. It is possible that the interfix pa in 9.1(b) is to be identified with the iterative prefix pa-mentioned in 2.9 above; la in 9.1(c) perhaps to the perfective preverb la. The others are unexplained, but the usage is plain.

10. Sound symbolism

10.1. The phonaesthetic use of variations in vowel quality has already been referred to briefly in section 8.

Such vocalic symbolism is often accompanied by a similar symbolic use of certain initial consonant clusters and final consonants. Sometimes the consonant clusters involved are restricted to expressions of this kind (see Henderson 1973), and may be regarded as constituting a morphological process of a rather special kind.

- 10.2. Clusters beginning with I-, which are rarely used in the rest of the lexicon, are especially popular in phonaesthetic adverbial expressions, and are selected here for exemplification purposes.
 - (a) Id- '(used to express dangling, especial helplessly)'

Iding 'lying helpless with a swollen abdomen'

Compare also lyndang 'on the back, supine'

(b) It- (expressive of something stretched out full length)

Itar (of something thin, like a sick emaciated person in bed)

Itir (e.g. a small caterpillar)

Iter (e.g. a snake)

ends)

With back vowels and a final palatal nasal, the erence is to things long and round at both ends,

Itúiñ (e.g. a large snake, like a python)
Itoiñ (e.g. a sausage, or a dachshund)
Itaiñ (e.g. a flat board with rounded

There are some words beginning with the sequence at-which may belong here, viz. (yntang 'plank', ater 'a line, a length'.

(c) |p- (with a front vowel, expresses lying in a relaxed way)

lping lying lazily, e.g. a pig after eating

lpen lying still, like a snake on a
 path

```
(with back vowels, straight, lil
      (d)
           lph
                       a post or column)
           lphong
                     'like a small straight post or
                       tree'
           Iphung
                     'like a big straight post or
                       column'
                     'like a fleshy (not rigid) up-
           lphur
                       right mass'
      (e)
                     (hanging down, as of meat hung
           1 .i -
                       a wire, cp. |d-)
           Liana
                     (e.g. a thin flattish piece)
                     (a more substantial piece than
           ljeng
                       ljang)
           ljing
                     (a stringy long piece)
           Ljong
                     (a roundish shovel-shaped piece
                       but small)
                     (a large, longish piece)
           ljung
      (f)
           Im-
                     (with final -m = fleshy, fatty)
           lmam-lmam (e.g. a short, stocky person)
           lmem-Imem
                     (e.g. a stocky but taller perso
           Imum-Imum (e.g. someone taller and bigger
                       than the other two)
      (with final -t = yellow-coloured)
           lmet-lmet (e.g. a pale beautiful yellow)
           lmit-lmit
                     (a brighter yellow than 'lmet-
                        Imet')
           The sequence lyngsn- which expresses the
general notion 'lying flat' is illustrated by Rabel
(1961, 115) as follows:
                      the way a moth "lies" on a win
           lyngsnap
                       dow pane'
```

the way a butterfly or frog

chíck síts'

the way a [cute and sweet] bab

lyngsnep

lyngsnop

lyngsnup 'the way a turtle sits'
lyngsniap 'the same as lyngsnap but
"cuter"'

IS describes lyngsniap as descriptive of someng more delicate and thinner than that described lyngsnap, e.g. a beetle's wing or a flake of bark.

lyngsnej 'the way a slug crawls' (IS says
 it suggests stickiness and
 slowness.)

3. Among other phonaesthetic initial sequences are - (big and muscular), mt- (in a heap or lump), jl-sgusting, nauseating), pt- (sticky), tk- (fat and der, plump), bl- (pale, insipid), shd- (showing the th, as in laughing and grinning). For example, a pig would be mthin, a fat bull would be mthun; a ge swelling caused by a hornet sting would be ng, a smaller one caused by a gnat bite would be ng. Blar-blar and blaid-blaid are used of pale te things, bler-bler and bleid-bleid of pale yel-ish things. Shdai implies the showing (in a grin, .) of small regular teeth, shdei implies larger, sibly irregular teeth.

Morphological 'Sets'

In conclusion, I list below some 'sets' of words h some semantic content in common, which it seems unreasonable to suppose were also formerly linked ough morphological processes of which now only silized traces remain. These traces have been dissed for the most part in earlier sections but the ms are assembled here for convenient reference.

(a)	bit	- bthi	bthit	byrthit
	'to stick'	'sticky (of fat)'	'sticky (of gum)'	'viscous'
	thit	bthing	dambit	
(i)	'bird-lime'	'wax'	'to stick, adhere'	
(11)	grease that covers new- born babies			
(b)	tuid	btùid	syntuid	
	'to flow'	'to slip, slippery'	'to slide'	
(c)	'ti kti	rtin	btin	kynti
	(short 'hand' form of kti)	'clinging'	'to lead by the hand'	'to pound with fist'
(d)	shong	shnong	jingshong	pynshong
	'to sit, dwell'	'village, town'	'seat'	to seat (some- one)'
(e)	lait	pláit	pyllait	
	'to be free, to escape'	'to open out, to clear a way'	'to set free'	
(f)	loit	bloit	pynloit	khloit
	'to undo'	(phonaes- thetic word sug- gesting something becoming detached)	'to undo' (for someone)	to come out of the sock et; to b dislo- cated'
(g)	súh	bsúh	bsùt	kyrsúh, tyrsúh
	'to thrust, sew'	'to in- trude, push one's way in'	'to enter by force, force one way in'	with an

J.

'nat	tnat	pnat thnat
(short form of tnat)	'branch, twig'	'forked (i) 'with branch, a prong' branched finger or toe' (ii)'cock-
		spur'
'nái	bnái	phyrnái shái
(short form of bnái)	'moon'	'to shine 'to be brightly' light'
her	sner	per
'to fly'	'feather, wing'	'to float'
(?) _{úd}	kyn ^(?) úd	kyr ^(?) úd
'to com- plain, moan'	'to hum'	'to murmur, grumble'
tied	patied	kyrtied
'to strike, hit'	'to keep on hitting'	'to thunder'
rung	phrung	pynrung
'to enter'	'to pene- trate'	'to insert'
(ia)roh	kroh	pynroh
'to praise'	'to coax'	'to flatter'
-teng	pateng	bteng
'occasion, time'	'genera- tion; joint, link'	'to join'
pajut	kynjut	
'to drag'	'to pull with force'	

```
(p)
      tawiar
                      lyngwiar
     'in a
                     'circle'
       circle'
(r)
      rwiang
                     tyrwiang
                                    rymwiang
     'luck'
                     (i) 'halo
                                   'fishing
                                    hook'
                       round
                       sun'
                    (ii) 'hair
                       whorl'
                       associated
                       with notions
                       of good luck,
                       etc.
(s)
     -neng
                      bneng
                                    kneng
                                                  tneng
     'above'
                                   'still and
                     'heaven,
                                                 (variant o
                       sky'
                                     lofty'
                                                   kneng)
                                     (in ieng
                                     kneng 'to
                                     stand still
                                     and tall')
(t)
      bit
                      tbit
     'fitting,
                     'skilful,
                       tactfuĺ'
       proper'
(u)
      dong
                      kdong
                                    kyndong
     'angle,
                     'corner
                                   'corner'
       corner'
                       (in sense
                       of place
                       ambush);
                       opportun-
                       ity'
(v)
                                                  kynjrat
      rat
                      jrat
                                    jynrat
                                   'to uproot' 'to uproot
     'to demo-
                     (in phut
                                                   with
       lish, to
                       jrat
'to
                                                   force'
       extirpate'
                       extract
                       s. rooted')
```

Э.

ngam 'to submerge' sngem'damp.

moist'

sangam

(thick undergrowth, usually wet (in jungle)'

¹In modern usage, according to IS, klong by itf means 'a vessel, gourd'. 'Heart' is klong snam, 'blood vessel'.

 $^{^2\}mathrm{Not},$ of course in the case of pnat above, where appear to have an example of a 'different' p-fix.

³Notice the length of vowel in plait. The true sative here is pyllait 'to liberate'. See Section

⁴In IS's pronunciation, particularly of 'ined r', the epenthetic vowel was frequently heard
er the infix, viz. [krimen] for kyrmen. This unlines the point that the infix is essentially a
labic consonant, and that the accompanying y vowel
eys no part in the underlying structure of the word.

⁵I have used current spellings in these words stead of the older forms ting, ih etc. used by sor Singh.

⁶IS pointed out that Schmidt mistakenly interets la liar as a word with a la-prefix, not recoging its compound form.

Compare the morphological use of final consoat variation in the verb in some Tibeto-Burman aguages, such as Chin. See, for example, Henderson 55b pp. 72-89, and Stern 1958.

 $^{^{8}}$ The reader is reminded that [e] and [o] are vays longer in closed syllables than [i] and [u].

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