NOTES

On the r > h shift in Phnom Penh Khmer*

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1. Introduction

Before my first visit to Cambodia in 1991, I collected some useful vocabulary from Khmer-English dictionaries to help in my work in Cambodia. The pronunciation of these words was mostly given according to the standard written language, but I soon discovered that many of them are pronounced differently in Phnom Penh, creating problems for non-native listeners.

The Phnom Penh dialect is used daily by natives of Phnom Penh, be they educated or not, rich or poor, civil servants or ordinary citizens. My data on it was collected during 1991-1993 from various people. The most help has come from Ms. Phoumy Ouch, who was born and has lived in Phnom Penh since 1958, and the forms given here are based on her idiolect. The standard Khmer forms and meanings are given here largely as in Huffman's and Jacob's dictionaries.

I could not find any records on the history of the Phnom Penh dialect, but the current pronunciation is at least 100 years old, as indicated by the speech of a grandmother of Ms. Phoumy who is now 82 but still speaks the way she did as a child.

From 1975 to 1978 the Khmer Rouge scattered Phnom Penh inhabitants throughout the country, with the result that Phnom Penh pronunciation has become widely known. And since 1979, with the return of many Khmer people to their homes, the Phnom Penh pronunciation has become quite popular. At present it is accepted and used unofficially by Phnom Penh people and others at all levels of society in their daily lives. One can predict that it will be the Khmer language of the future.

One of the most noticeable features of Phnom Penh Khmer is the variation between initial r and h, with its other concomitant features.

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2. Phoneme inventories

2.1 Standard Khmer

The pure vowels in Standard Khmer are: i, ii, e, ee, ε , $\varepsilon\varepsilon$, a, aa, α , α , ε , ε , o, oo, u, uu, uu, uu, uu, ε , ε .

The initial simple consonants are: m, n, n, n, b, d, p, t, c, k, ?, p^h , t^h , c^h , k^h , f, s, h, w, y, l, r

The initial consonant clusters are: pr, tr, cr, kr, sr

The final consonants are: m, n, n, n, p, t, c, k, ?, h, w, y, 1

2.2 Phnom Penh

The pure vowels in Phnom Penh Khmer are as in Standard Khmer, but lacking /i/ and /ɛ/ (Noss lacked /o/ [1966:91]). The glided vowels are as in Standard Khmer but lacking /ɛə/ and /ɔə/. The finals and the initial simple consonants are as in Standard Khmer except /r/, but Phnom Penh lacks the clusters (Noss lacked /f/ [1966:90]).

3. The r > h shift

The shift described above as r > h is in reality a registral shift involving several aspects of the phonology. There seem to be no restrictions on the occurrence of this shift; it may occur in all phonological environments (see Appendix 1, cocurrence chart). Samples of the shifts are given below; for more examples see Appendix 2.

3.1 r > h

This is a shift of voiced > voiceless and rhotacized > nonrhotacized. The r > h initial words are marked by falling-rising pitch. For example:

?oŋrae	>	?aŋhĕe	ruam	>	hŭuam	riən	>	hĭiən
ruuən	>	hŭuən	ruup	>	hǔup	TEEC	>	hěec
rooy	>	hŏoy	samrap	>	samhiiap	rwh	>	hðəh

$3.2 \ Stop + r > aspirated stop consonant$

This is similar to the above except that the h is just a voiceless aspirated release h of a stop rather than a fully segmental h. The clusters pr, tr, cr, kr become aspirates p^h , t^h , c^h , k^h . For example:

prae	>	p ^h ἔε	pram	>	p ^h iiam	pron	>	p ^h ŏoŋ
truu	>	t ^h ŭu	traeŋ	>	t ^h čeŋ			t ^h iiac
crəi	>	c ^h žəi	cruŋ	>	c ^h ŭuŋ	criə?	>	chiiə?

3.3 $sr > s^h > s + tone$

I hypothesize a two-step change in which the r after s is devoiced and derhotacized to form an aspirate s^h , which in turn becomes s plus falling-rising pitch. In a two-syllable word this results in reduction to one syllable. For example:

$3.4 \ bVr > ph + tone$

In a two-syllable word where the first syllable has a voiced stop and the second has r, the word may collapse into a monosyllabic word with aspirated voiceless stop and falling-rising pitch.

baaraŋ > bəhiiaŋ > biiaŋ > p^hiiaŋ

3.5 Diphthongization

The simple vowels /a, aa/ and /a, aa/ change to /iia/ and /uua/. For example:

kraŋ	>	k ^h iiaŋ	kraap	>	k ^h iiap
tran	>	t ^h ŭuaŋ	traan	>	t ⁿ ŭuaŋ

3.6 Monophthongization

The vowel glides to mid height /ae/, /aə/, and /ao/ change to simple vowels /ɛɛ/, /əə/, and /ɔɔ, oo/, respectively. And there are other occasional changes. For example:

กรลว	> >	c ^h če p ^h ðə k ^h ðəl, k ^h ŏol c ^h ðən	kraeŋ sraəŋ kraok		k ^h ěeŋ s ð əŋ k ^h ɔ́ɔk, k ^h ŏok	sraen kraən sraom	>	k ^h ðən
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3.7 Vowel lengthening

Many short vowels are lengthened. For example:

riəp trəm	> >	c ^h iiə? hiiəp t ^h ðəm p ^h ŭuh	proh proh ruam	>	preŋ truth run	>	t ^h wwh	
pruh	>	p-uun						

3.8 Vowel height change

The change of r > h may also affect vowel height; /u/ may lower to /əə/ and /o/ may raise to /uu/. For example:

rwh	>	hặah
proah	>	p ^h ŭuah

In summary, this is a complex register shift in syllables containing r. It involves simultaneous shift in common register components such as devoicing, pitch, vowel gliding, vowel length and vowel height.

Appendix 1. Distribution of Phnom Penh final consonants and vowels in syllables with original initials /r/, /pr/, /tr/, /cr/, /kr/, /sr/.

	r-	pr-	tr-	cr-	kr-	sr-
ii				-w		
e		-ŋ				
ee		-ŋ, -n				
EE	-c					
a			-m,-ŋ,-p,-c,-?		-ŋ,-?	-m,-ŋ,-p,-c,-?,-h
aa	-n		-#,-c,-w	-	-**, -m,-n,-p	-#,-ŋ,-p,-t,-w,-1
a		-ŋ,-?,-h	-ŋ,-h			-m,-ŋ,-h
aa		-p	-ŋ	-?	- # ,-ŋ,-?	-p
3		-h			-ŋ	
23			-m			
0		- n				
00	- y	-m	-m,-p	-ŋ,-t,-k	-p	-p,-t
u	-n	-h	-ŋ,-h	-ŋ,-h,-l		
uu	K	_#	-ŋ _#	-k	_#	
w	-h	⁴ -h	_#			
ww				-h		
Э		-ŋ,-h	-m,-ŋ,-h,-w	-h		-m,-p
ia	-?					
iə	-n,-ŋ,-p	-ŋ,-p,-y	-p,-y	-ŋ,-p,-?	-p,-?,-w	-W
iiə	-n,-ŋ,-p,-y			-p,-y		
ai		_#			_ #	
ae	_#	-#, -ŋ,-t,-c	_#	- # ,- ŋ,- C	- * ,-ŋ	
ao					-m,-k,-y,-l	-m,-p,-c
au					_#	
aə		_#		-n	-n	-ŋ
oa		-h				
ua	-m,-h			-m	-m	
uao			-m			
Gu	- p	-h	- p	-ɲ,-ʔh	-p,-h	
euu	-c,- n	-h,-p-l		-ɲ,-l	-c,-h	-c,-l
cw	-ŋ				-t) _#	
əi		_#	#	_#		_#
่อน		_#		_#	-7	

Appendix 2. List of r > h words.

Standard	Phnom Penh	
?aŋ.rae	?aŋ.hĕɛ	cradle, hammock
?aa kruə?	?aa k ^h ŭuə?	evil, demon
?aa.sram	?aa.sŭuam	hermitage
baa.ran	p ^h iaŋ	France, foreigner
caan.kraan	caan.khŭuan	to edit, compile, collect
can.kraan	ck ^h iian	stove
craa?	c ^h ŭua?	to fill
crah	c ^h ŭuah	to be imitative of the sound of
		hacking, slashing
crəh.rəh	c ^h ðəh.hðəh	to choose
crəi	c ^h ðəi	a kind of tree
crau	c ^h ðəu	deep
craən	c ^h ðən	many, much
craŋ	chian	river bank •
craal	chial	very red
craan	chian	to push
crac	chiac	a kind of tree
crae	c ^h ἔε	to shuffle cards; a kind of palm tree
craeŋ	c ^h žeŋ	to stand with hands at waist;
	·	to support, prop from an angle
craec	c ^h ěec	to intrude, interfere, bother
criə?	c ^{lr} iiə?	to split into lengthwise sections
crian	c ^h iiəŋ	to sing
criəp	c ^h iiəp	dead silent
criiəp	c ^h ĭiəp	to come to the knowledge of, be
1		learned by
criiəy	c ^h ĭiəy	soft and easily squashed
criiw	chiw	shrivelled
croon craan	chŏon chian	sticking up here and there irregularly
crook	c ^h ŏok	to resort to the shade, take shelter in,
		at; to depend on the help or power of
		others
croot	chŏot	to cut down with a sickle
cruə?	c ^h ŭuə?	pickled vegetable
cruəh	c ^h ǔuəh	gorge, mountain stream, spring
cruən	c ^h ŭu ə n	chopping board
cruŋ	c ^h ŭuŋ	angle, corner
cruam	c ^h ŭuam	to eat (vulgar)
cruh	c ^h ŭuh	to fall off, be shed
crul	c ^h ŭul	to go beyond the reasonable limit
cruuəl	c ^h ŭuəl	to scatter in panic, scatter in disorder
cruuən	c ^h ŭuən	wrinkled (face)
cruuk	c ^h ŭuk	pig
crwwh.rwh	c ^h wัwh.hwัwh/	to choose
	c ^h ւմահ.hɔ̆əh	
kan.traa	k ăŋ .tʰiia	contract
-	₩	

Notes Notes

khluun praan	k ^h lŭun p ^h iian	body
kron	k ^h ɔ̆ɔŋ	city; to catch by placing net, pot, etc.,
•		over; to protect
kraa	k ^h ŭua	poor, rare, difficult
kraa?	kʰŭua?	sausage
kraan	k ^h ŭuaŋ j	to plait one's hair
krai kraa	k ^h ðəi k ^h ŭua	poor
kra?	k ^h ia?	heartwood of tree which has fallen
_	. 1	through natural causes
kraən	k ^h ðən	to urge
kraŋ	k ^h iiaŋ	a huge book for official registration in
1	ı.he:	the King's palace or temples
kraa	k ^h iia	a kind of insect
kraa?	k ^h iia?	sound of an object pulled out
kraam	k ^h iiam	kilogram
kraap	k ^h iiap k ^h ĕe	to prostrate
krae	k ^h čen	bed
kraeŋ	K een	to have regard for others and their
krai	k ^h iiai	feelings extremely
kraok	k ^h ðok/k ^h ðok	to wake up
kraol	k ^h ŏol/k ^h ŏol	stable, cattle-shed
kraom	k ^h ŏom/k ^h ŏom	under
kraoy	khooy/khooy	behind
krau	k ^h iiau	outside
kriə?	k ^h iiə?	ugly appearance; to tie to a post
kriəp	k ^h iiəp	a kind of snack; sound of brittle
F		object being crushed
kriəw	k ^h iiəw	to castrate
kroop	k ^h ŏop	a cover
kruɔĥ 🔸	k ^h ŭuəh	accident, casualty
kruəp	k ^h ŭuəp	seed, gain
kruam	k ^h ŭuam	extremely weak
kruu	k ^h ŭu	teacher
kruuəc	k ^h ŭuəc	a kind of bird
kruuəh	k ^h ŭuəh	gravel, small rounded stones
krwəŋ	k ^h ŭwəŋ	ingredient
proh	p ^h šoh	male
pra?	phua?	to roof, thatch, to be roofed with
praap	p ^h ŭuap	next to, adjacent, very near
pran	p ^h ǔuaŋ	a kind of tree
prah	p ^h ǔuah	to sprinkle
prəŋ	pháan	to make an effort
pran praen	pháan phěen	to try hard to
prəh/prwh	p ^h ðəh/p ^h ŭwh	a kind of deer; conical bamboo entry
!	.hx_*	to a fish trap
prəi	p ⁿ ðəi	forest
prəu	p ⁿ ðəu —k: -2	unmarried and old
pra?	p ^r iia?	silver, money
praə (khaa)	p ⁿ ðə akina	to use
pran (khae)	p ^h iaŋ	dry, hot (season)

	h	
praac	p ^h iiac	intelligent
praaw	p ^h iiaw	sound of crushing brittle objects
prae	phěe	to alter, change
praec(k)	p ^h ĕec	small river, a part of cart
praet	p ^h ĕet	demon, ogre, monster, inhabitant of hell
prah	p ^h iah	to toss and turn in sleep; roll along the ground; move, struggling to free oneself
prai	p ^h iiai	salty
pram	p ^h iiam	five
prap	phiap	to tell
pren	p ^h ěen	oil
preeŋ	p ^h čeŋ p ^h čeŋ	ancient
preen	p ^h ěen	food offered to spirits
priəŋ	p ^h iiəŋ	to do in rough, do as a practice before
[F3	the real thing
priəp	p ^h iiəp	pigeon •
priəy	p ^h ĭiəy	ghost, demon, malevolent spirit
priiaw	p ^h iiaw	groping, hazard a guess
pron	p ^h ŏoŋ	to be guarded; to be ready to; to
, ,	, ,	intend to; to plan for; to try to
proah	p ^h ŭuah	to be kind to, square, deliver from
•	-	death
proom	p ^h ŏom	to be ready, agree to, consent to,
•	•	accept
pruəh	p ^h ŭuəh	because; to sow, scatter, broadcast
pruh	p ^h ŭuh	to bark
pruu laan	p ^h ŭu laan	a bus conductor
pruuəh	p ^h ŭuəh	to spit onto
pruuəl	p ^h ŭuəl	a bit at a time, trying it out; wicker
•	•	work frame with various uses
pruuən	p ^h นันอุท	arrow
raəŋ	h əəŋ	to winnow, sift
riəŋ	hĭiəŋ	shape, form, appearance
riən	hĭiən	to learn
riəp	hĭiəp	to prepare
ria?	hìia?	shallow
riiəŋ	hĭiəŋ	to have had enough of, give up
riiən	hĭiən	platform, stage
riiəp	hĭiəp	flap
riiəy	hĭiəy	small change
rooy	hŏoy	hundred
ruəp	hŭuəp	to count
ruah	hŭuah	to rake
ruam	hŭuam	to dance
run	hữup	to push
ruuəc	hŭuəc	to finish, achieve, get through to
		the end
ruuən	nguyn	to shrink, shrivel
ruup	hŭup	picture, shape, statue, likeness

rwan	hữwəŋ	matter, issue, story, event, play
rwh	hwwh/hðəh	root
reec	hěec	to carry on one's shoulder
sam.raan	smĭian	to sleep
sam.rac	sam.hiiac	to decide; to achieve
sam.rap	sam.hiiap	for
sraa?	sŭua?	to decrease(water)
sraap	sŭuap	to follow closely; to agree with
sran	sŭuaŋ	to bathe (Buddhist monk); to pick
•	•	something out of a liquid, save
		from drowning
srah	sǔuah	fresh, vivid before one's eyes, nice-
		looking, pretty
srəi	săai	female
srəm	sžem	appearing bit by bit
srəp sraal	səəp siial	to get excited
sra?	siia?	stack; to tie round tightly
		scurf
sraən	sšen Šien	
sran	siian *:	a kind of insect
sraa	šiia 	alcohol
sraan	siiaŋ	glimmer, opaque
sraal	sĭial	light in weight; not serious
sraap (khae)	siiap	July-August (lunar system)
sraat	sjiat	to take off clothes, undress
sraaw	sĭiaw	to wind in, wind up
srac	sijac	to finish, complete
srae	sĕe	paddy-field
sraec	sĕec	to shout
sraen	sěen	leprosy
srah	siiah	lake, pond
sram	siiam	to be cracked
sraoc	sčoc/sčoc	to sprinkle
sraom	sðom/sŏom	envelop
sraop	sɔʻɔp/söop	to cover all over the surface
srap	siiap	already complete
sriow	sĭiɔw	to feel a chill of fear; to shiver
sroop	sŏop	to suck in
sroot	sŏot	swiftly and directly
sruuəc	sŭuəc	pointed, sharp
sruuəl	sŭuəl	easy, comfortable
meent	t ^h ɔၴɔm	to be weakened
traan	t ^h ŭuaŋ	to catch liquid in a container
tran	t ^h ŭuaŋ	direct, straight
trah	t ^h ǔuah	a kind of tree
trəŋ	t ^h ðəŋ	to be silent and halt, unable to
u o n	r oo rj	continue what one's doing
trəh	t ^h ðəh	than
_	t ^h žəi	fish
trai	thXom	
ment ment	t ^h ðəm t ^h ðəm t ^h ðaw	exact, just up to the same point as
went ment		right, accurate, proper
wen	t ^h ðəw	must, correct, right

trac coo

_	1	
tra?	t ^h iia?	an anonymous letter
CI CCI	t, Mai	an anonymous icuci
	. 100	• • • •

a kind of tree tran t'iaan t^hiiac a kind of tree traac

t^hiiaw traaw

to go, walk, move foward thěe horn trae

t^hčeŋ a kind of tree traen

thiac coo

t^hiiam to soak tram t^hiiap to imitate trap

triəp t^hĭiəp a kind of sweet

thŏom go down (of elephants going into bent troom

position)

thŏop sag, flop down on troop

wealth, possessions, belongings; to thŭuəp truəp

spread out under pen, enclosure

thuuŋ trun t^hŭuŋ thĭiəy form, shape truŋ triəy

t^hŭuaəm to put up with, endure, suffer truaəm

t^hŭuh to harm truh

t^hŭu a cylindrical fish-trap truu

chest t^hǔuŋ truun t^htŭtuh truth than

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