

Assignment #2: process application in WoleaianData from Sohn (1971)¹Due **Friday, Jan. 27** (put a hard copy in my mailbox, Campbell 3125)**Instructions for write-up**

- First, discuss the issues for rule application that arise in the data below, given Sohn's three rules. You should consider iterativity, directionality, and anything else that strikes you.
 - *a-a* dissimilation: $V \rightarrow [-low] / _ C_0 \begin{bmatrix} -cons \\ +low \end{bmatrix}$
 - final-*a* raising, $\begin{bmatrix} V \\ -long \end{bmatrix} \rightarrow [-low] / _ \{=, \#\}$. The = boundary occurs in reduplication.
 - harmony: $V \rightarrow [-low] / \begin{bmatrix} -cons \\ +hi \end{bmatrix} C_0 _ C_0 \begin{bmatrix} -cons \\ +hi \end{bmatrix}$. Note that this rule contains no (=).
- Then, develop an OT analysis of the [a]~[e] alternations.
- Finally, there are some problematic forms at the end of the data. If your analysis can accommodate them, great! But if not (mine can't without getting very ugly), just discuss the issues that they raise, for both the rule analysis and your OT analysis.

General notes and tips [see also below in the data]

- I've given Sohn's underlying forms, but you should feel free to challenge them.
- I'm giving you the real surface form, where final vowels undergo all kinds of reduction, in case it provides some inspiration for a better solution than what I came up with. But you only need to analyze the "intermediate" form, which suppresses various word-final vowel erosions.
- Sohn says: "[ü] and [wü] are in free variation. The motivation for setting up w will not be elaborated here." You can ignore the /w/→∅ changes.

Transcription notes (I copied Sohn's transcriptions, which are non-IPA)

- capital letters (I, E, etc.) are voiceless vowels.
- ü is a high central vowel. Judging from Sohn 1975, I think it's [+round]
- é is a mid central vowel. Judging from Sohn 1975, I think it's [+round].
- j is a glide (i.e., IPA [j])
- g seems to be IPA [ɣ]

Possessed forms of nouns

- Ignore the /c/ → [š] change, here and throughout.

	<i>underlying</i>	<i>intermediate</i>	<i>surface</i>	<i>underlying</i>	<i>intermediate</i>	<i>surface</i>
	'eye'			'drinking object'		
<i>X</i>	1. /mata/	mate	matE			
<i>my X</i>	2. /mata+i/	metai	metaj	3. /wülüma+i/	ülümei	ülümej
<i>your (sg) X</i>	4. /mata+mu/	metamu	metamU	5. /wülüma+mu/	ülümemu	ülümemU
<i>his/her/its X</i>	6. /mata+la/	metale	metalE	7. /wülüma+la/	ülümale	ülümalE
<i>our (incl) X</i>	8. /mata+ca/	metaše	metašE	9. /wülüma+ca/	ülümaše	ülümašE
<i>our (excl) X</i>	10./mata+mami/	matemami	matemamI	11. /wülüma+mami/	ülümemami	ülümemamI
<i>your (pl) X</i>	12./mata+mii/	metami:	metami	13. /wülüma+mii/	ülümemi:	ülümemi

¹Sohn, Ho-min. 1972. *a*-raising in Woleaian. University of Hawaii *Working Papers in Linguistics* 3: 15-36.

I've also consulted Sohn's 1975 *Woleaian Reference Grammar*. Where the two sources disagreed on a transcription or underlying form, I went with Sohn 1975, particularly with respect to final vowels.

‘2’ things

- “?” after the UR means I was guessing.
- I assume there’s a voiceless vowel at the end of ‘2 flat pieces’, but I don’t know which one.

<i>underlying</i>	<i>intermediate</i>	<i>surface</i>	
14. /ruwa+xofeti/ ?	ruwagofeti	ruwagofetI	‘2 pieces’
15. /ruwa+m ^w ëü/ ?	ruwam ^w ëü	ruwam ^w ëü	‘2 groups’
16. /ruwa+ali/ ?	ruwa:li	ruwa:II	‘2 skinny things’
17. /ruwa+tabo/	ruwetabo	ruwetabO	‘2 halves’
18. /ruwa+ɲafa/	ruweɲafe	ruweɲafE	‘2 arm-lengths’
19. /ruwa+fawü/	ruwefäü	ruwefäü	‘2 round things’
20. /ruwa+fija/	ruwefije	ruwefijE	‘2 handfuls’
21. /ruwa+tipV/ ?	ruwetipV	ruwetipV	‘2 flat pieces’
22. /ruwa+wülü/	ruweülü	ruweülÜ	‘2 handfuls of leaves’

you don’t have to account for /aa/ → [a:]

the quality of the final V is unknown

Reduplicated words

- /x/ becomes [g] between two voiced vowels.² You can ignore that, here and throughout.

<i>underlying</i>	<i>intermediate</i>	<i>surface</i>	
23. /parasa/	perase	perasE	‘switch’
24. /parasa=rasa/	peraserase	peraserasE	‘splash-intransitive’
25. /ka=kaɲi+i/	kekaɲi:	kekaɲi	‘to be eating it’
26. /m ^w ara=m ^w ara/	m ^w arem ^w are	m ^w arem ^w arE	‘lei’
27. /m ^w ara=m ^w ara+li/	m ^w arem ^w erali	m ^w arem ^w eralI	‘lei of’
28. /xa+m ^w ara=m ^w ara/	xem ^w arem ^w are	xem ^w arem ^w arE	‘to put leis on’
29. /xa+m ^w ara=m ^w ara+a/	xem ^w arem ^w era:	xem ^w arem ^w era	‘to put the lei on him’
30. /lawü=lawü/	laülaü	laülaü	‘to deliver babies’
31. /fitija=tija/	fitijetije	fitijetijE	‘to marry each other’
32. /tapaɲi+a/	tepaɲie	tepaɲi	‘to help it’
33. /ta=tapaɲi+a/	tetepaɲie	tetepaɲi	‘to be helping’

Causatives

- Sohn discusses the variant [xareɲereɲaI] (in **bold** below) as problematic. Also [xapelepelalI] and [xatepetepalI], which don’t have variants. You’ll have to decide what to do about them.

<i>underlying</i>	<i>intermediate</i>	<i>surface</i>	
34. /xa+b ^w u:toxo+a/ ?	xab ^w u:togoe	xab ^w u:togo	‘to make him go’
35. /xa+tem ^w a:üwè+a/	xatem ^w a:üwèe	xatem ^w a:üwè	‘to make him sick’
36. /xa+laxo+a/	xelagoe	xelago	‘to make him come’
37. /xa+mm ^w acü+a/	xe+mm ^w ašüe	xe+mm ^w ašü	‘to hold him’
38. /raɲa=raɲa/	raɲeraɲe	raɲeraɲE	‘yellow’
39. /xa+raɲa=raɲa/	xeraɲeraɲe	xeraɲeraɲE	‘make yellow’
40. /xa+raɲa=raɲa+a/	xeraɲereɲa:	xeraɲereɲa	‘make it yellow’
41. /xa+pala=pala/ ?	xepalepale	xepalepalE	‘sarong’

² Although actually, Sohn transcribes this one as [x].

42. /tapaŋi+a/	tapaŋie	tapaŋi	‘to help it’
43. /ta=tapaŋi+a/	tetepaŋie	tetepaŋi	‘to be helping’
44. /xa+tapa=tapa/	xetapetape	xetapetapE	‘to support’
45. /xa+tapa=tapa+a/	xetapetepa:	xetapetepa	‘to support it’

Miscellaneous—check that your analysis so far can handle all of these

- In (54) and (55), Sohn says the = might not be there synchronically. Your choice; it might not matter to your analysis.

<i>underlying</i>	<i>intermediate</i>	<i>surface</i>	
46. /marama/	merame	meramE	‘moon’
47. /marama+li/	maremali	maremaI	‘moon of’
48. /wera=wera/	werewere	werewerE	‘thunder’
49. /wera=wera+li/	werewerali	wereweraI	‘thunder of’
50. /paab ^w ija/	pa:b ^w ije	pa:b ^w ijE	‘pig’
51. /b ^w uxuwa/	b ^w uguwe	b ^w uguwE	‘knee’
52. /waxa/	waxe	waxE	‘vein’
53. /jalüsa/	jalüse	jalüsE	‘sideburns’
54. /jaremata/ or /jara=mata/	jaremate	jarematE	‘person’
55. /jaremata+li/ or /jara=mata+li/	jaremetali	jaremetaI	‘person of’
56. /jafara/	jefare	jefarE	‘shoulder’
57. /jafara+i/	jaferai	jaferaj	‘my shoulder’
58. /jafara+mami/	jefaremami	jefaremamI	‘our shoulders’
59. /jala/	jale	jalE	‘road’
60. /matawa/	metawe	metawE	‘sea’
61. /metaxo/	metaxo	metaxO	‘to be afraid’
62. /weri+xamami/	werixemami	werixemamI	‘see us (excl)’
63. /teraa/	tera:	tera	‘adze’
64. /maŋaaxo/	meŋa:xo	meŋa:xO	‘clothes’
65. /xaraŋapa/	xareŋape	xareŋapE	‘bonito’
66. /le+ssaxa+li#laŋi/	lessegalileŋi	lesseganneŋI ³	‘in the middle of the sky’

Problematic cases—if your analysis doesn’t capture them, discuss why

<i>underlying</i>	<i>intermediate</i>	<i>surface</i>	
67. /raxi=raxi/	ragirexi	ragirexI	‘to line up’
68. /jala=lapa/	jelalape	jennapE ⁴	‘road’
69. /xa+raŋa=raŋa+li/	xeraŋereŋali ~ xareŋereŋali	xeraŋereŋaI ~ xareŋereŋaI	‘making yellow of’
70. /xa+pala=pala+li/ ?	xapelepelali	xapelepelalI	‘sarong of’
71. /xa+tapa=tapa+li/	xatepetepali	xatepetepalI	‘supporting of’

³ The /i/ deletes by a rule that deletes a vowel between identical laterals, nasals, or fricatives. Then there’s also a prohibition against [ll], so you get [nn] instead.

⁴ The second /a/ deletes by a rule that deletes a vowel between identical laterals, nasals, or fricatives. Then there’s also a prohibition against [ll], so you get [nn] instead.