Syllable profile and glide formation in Sob [urw]

Ryan Harty Pioneer Bible Translators LSPNG 2021

Overview

Background

- Sob language location and vital signs.
- State of the research.

Phonological inventory and mechanics

- Consonant and vowel contrastive inventory.
- Syllable profile of Sob and supporting data.
- Revision of the Urton (2006) OPD--3 new consonants.

Glide formation in Sob

• How to explain the phonemic and allophonic distribution of glides in Sob?

An introduction to Sob [urw]



Tai

Tanggu

Tangua

Utarmbu

Uya

Wadag

Watiwa

Waube

Yaben

Yabong

Yagom

Wani

Tauva

An introduction to Sob [urw].

- Spoken in Madang Province.
- About 4000 speakers.
- At least three dialects. Transition zones especially with Somau Garia [six].
- This presentation focuses on Igoi dialect phonology.
- Our project since 2020.

Previous research

- Claasen, Oren. Usino Sop Wordlist (1969).
- Priestly, Carol. Usino Wordlist (1978).
- Gasaway, OPD Sob, (1994).
- Sob OPD, Urton (2006).

Typologically significant works

- MacDonald, Lorna. 1990. A grammar of Tauya.
 New York: De Gruyter Mouton.
- Gasaway, Eileen, et al. 1992. *Girawa grammar*.
 Ukarumpa: SIL PNG.

Sob segmental phoneme inventory: consonants

	Bilabial	LabDen	Dental	Alveo	Postalv	Palatal	Velar	labial-velar
Plosive	p b			t d			k g	k ^w
Nasal	m			n				
Tap/Flap				ſ				
Fricative		f		S				
Approx						j		W

Sob segmental phoneme inventory: vowels

[-back] offglide [+back] offglide

i		ա, u	[-high] main	ai	au
е		Ο		oi	ou
	а		[+high] main	ui	
				wi	

- Six vowel system, asymmetric alignment with a rounded and unrounded pair in the close back position.
- Diphthongs always move to [+high].
- /ɯ/ is represented in the orthography by <ü>.

Sob syllable profile

Sob has a (C)V(C) syllable profile.

- CV is the least marked syllable shape in Sob.
- V is marked, and usually creates vowel hiatus.
- VC is marked and uncommon.
 - VC syllables often create vowel hiatus which I address in a moment.

Sob syllable profile, (C)V(C)

	Single syllable	#\$	\$\$	\$#
V	e 'or'	e.ge 'eye'	fu.gi. a .ga 'light from fire'	fi. o 'cloud, fog'
cv	mi 'louse'	ta .ba 'head'	u. di .ge 'sand'	su. be 'mouth'
cvc	nur 'nose'	keb .kai 'water snake'	a. büs .kai 'old woman'	si. bim 'stomach'
VC	am 'what'	ag .fe.re.a.ga 'he leads'	***	gi.tu. ar 'dusk'

My revisions to the 2006 OPD

- Added /j, w/ as phonemes.
 - \circ This removed triphthongs from the Urton OPD.
- Added /k^w/ as a phoneme.
- These changes were brought about by analysis of the syllable profile of Sob.

[kw] residue

All data in my corpus matches (C)V(C), but what to do with the following significant residue?

- [kwai.da] 'chicken'
- [kwai.gi.a.ga] 'he removes the skin'
- [kwai.ja] 'plant sprout'
- [kwan] 'bow and arrow'
- [kwa.ri.a.mag] 'housefly'

/kw/ as phoneme

The syllable profile caused me to posit the single segment /k^w/ as a phoneme of the language.

- /kwaida/ 'chicken'
- /kwaigiaga/ 'he removes the skin'
- /kwaija/ 'plant sprout'
- /kwan/ 'bow and arrow'
- /kwariamag/ 'housefly'

/kw/ as phoneme

- This requires no orthographic change. The provisional orthography already uses <j, w, k, w>.
- The syllable profile of the language remains below the conscious level of native speakers.

/kw/ as phoneme

Adjusting the syllable profile to (C)(C)V(C) was another option, but it would have been too powerful. This profile **generates complex onsets that simply aren't attested**.

- pr, br, sr, tr, dr, kr, gr, tw, dw, sw, etc.
- All of these examples assume the language would follow the sonority sequencing principle.
- This principle would likely require a few more liquids in the phonemic inventory if complex onsets were allowed.

Syllable profile and glides in Sob

- The syllable profile has helped me pull apart consonantal glides and diphthongs.
- Glides and high vowel diphthongs are difficult to distinguish phonetically, but the syllable profile helps with phonological analysis and decisions.

Syllable profile and glides in Sob

For example:

[joi] or [joj] 'elephant grass, kunai' [jai] or [jaj] 'water' [sorowai] or [sorowaj] or [soroai] or [soroaj] 'beetlenut'

When is it a vowel? When is it a glide?

/i.o/ 'yes' \rightarrow [jo] in fast speech

/ki.mi.gi.a.ga/ '3sg fears' \rightarrow [ki.mi.gi.**ja**.ga] in fast speech

/fi.o/ 'cloud' \rightarrow [fi.jo]

/e.di.na pi.ru.i.a.ga/ 'the moon is changing [phase]' \rightarrow [e.di.na pi.ru.**wi.ja**.ga]

When is it a vowel? When is it a glide?

I propose the following rule:

$$V_{[+high]}/ V \rightarrow [-syllabic, +high]$$

A high vowel preceding another vowel will form a glide consonant to resolve vowel hiatus.

Example: /fi.o/ 'cloud' \rightarrow [fi.jo]

Vowel hiatus resolution in Sob

- I have found no evidence of vowel hiatus resolution using vowel coalescence or elision.
- All my data points to vowel hiatus resolution using only semivowel insertion.

Questions?

bafanamDEM.DEICsmall'That's all.' (lit. 'It's little.')