Achumawi Database: Summary for January 2021

The current backup can be downloaded (with instructions) from the usual location at http://zelligharris.org/achumawi-db.html

This has been a popcorn month, metaphorically speaking, with requests and opportunities popping up unexpectedly. Consequently, I have progressed little on the words in the Swadesh list (matched up to Yana words), and not at all on the pronominal prefixes, but a lot has developed.

In my ongoing work organizing lists of examples and looking for the patterning of pronouns I inevitably notice unresolved things in the verb stem that follows. Now what do you suppose closing, locking, arranging objects, and drowning have in common?

In September, I wrote about *ski* and *ska* as possibly alternate forms of the same root. Examples of *ski* include *tuskímci* "sit down", *uskístum* "sit upon", and *icéski* "look for".

However, upon further examination I recognize the other root as not ska but rather sqa. Most of the occurrences are from Curtin, Radin, and de Angulo, who are unreliable about k vs. q and sometimes wrote q in these words. Harrington did not distinguish q from k at all. Although my own record is also somewhat variable, q is well supported. I understand the confusion. Articulation of s at the front of the mouth can sometimes pull the articulation of the following q farther front towards k. The stop can sound like aspirated k^h after the voicelessness and increased airflow for s. Closure at the back of the oral cavity for q has been recorded as glottalization, e.g. sk in "point" and "index finger". Here are some examples, as rectified, showing the sqa root, which I have glossed "delimit, arrange, enclose":

itasqááwami	finish	tisqááti	set it up (as sign)
tilísqááwami	finish	winasqááti	set or prepare
tasqááwací	rest, have free time	tilisqááti	point
tasqááwa	(now you can) retire!	tilisqáámé	pointer, index finger
isqaaŵi	viscous, thick (no drip)	tinťusqáwti	break it off
tinkusqááẃi	plug it up, close it, shut it	tílísqáápi	curse, swear at
tíncasqaawí	close it	ticusqáápi	drown
tiwasqááwé	door; box, enclosure	tásqápċááȟi	fall into water
tincasqáwtawáyi	open it up	sácasqápĺi	I blister
tiwasqááwamtánumé	trap door		

Harrington recorded a placename, álisti sqaw sqaw íwalmi where rocks (álisti) form a line (a delimitation) crossing (íwalmi) a creek. A look-alike ó tykwínisqáátáké "he prayed for himself" has qát "approach, compact" after the root for speaking, followed by the reflexive -áké.

A number of these have stem-final $-\dot{w}$. I have glossed this as a stative suffix. A w with stative meaning may occur in other places:

- The pronominal prefix \vec{w} "3" person habitual/characteristic/force of nature".
- The *uw* stative copula. In English and other languages, what traditional grammar calls "adjectives" are really stative or durative predicates requiring an extraposed carrier for tense and aspect morphology (the copula or so-called verb "to be"), and in Achumawi the form of the adjectival copula is *uw*.

There is also the *awa* which alternates with *oo* at the beginning of a verb stem, if a stative or durative meaning can be demonstrated. If that is so, there would be two occurrences in *tiwasqááwe* "door; box, enclosure". The vowel alternations of e.g. *tupti* "go", *sápti*, sápté "I go" tupté "go!" siwápté "I go back", tépte "go back!" will probably be explained as reductions of such morphemes. This *w* morpheme may be cognate to the "morpheme that Talmy has in his examples (but does not explain) in his 1972 dissertation on Atsugewi semantics.

In this context, my sceptical eye returns to suffixes and postpositions beginning with w-.

-wa locative, as in $c^h \acute{a}$ where $+ c^h \acute{a} \acute{a} \acute{w} a$ in what place.

On nouns, the place where the named thing may be found

wáté wa durative, habitual + tu upon or ti toward + -e substantive

(a "do X" verb + -e becomes "the thing you do X with")

waci wa durative, habitual + c do? The s of s-waci, etc. may refer to an indefinite object, TBD.

wáka agent (reduced to ka after vowel: kwán wáká, but tatýí ka)

wáli the kind that doeswal with (comitative)

wáwi collective

waymi right here; just so

wam separating: wa + -m "thither"

In the story of the mother deer, mother bear, and their children, the mother deer doesn't just say $kiciwasq\acute{a}\acute{a}\acute{w}a$ "you two should shut them in", she says says $kiciwasqaa\acute{w}\acute{a}t\acute{e}$ "you two should shut them in tight". This looks like the locative - $w\acute{a}t\acute{e}$ applied to a verb instead of to a noun. The analysis given above into -wa + ti suggests that the final vowel may be the imperative indicated not by - \acute{a} but rather by the infrequent - \acute{e} as seen in e.g. $tupt\acute{e}$ go! The mid vowels e and o appear to result often

from assimilation of one of the apex vowels i, a, u to some kind of affix which, once the semantic burden is carried by that vowel change, has been reduced to zero.

The agentive ka on a noun marks which noun refers to the agent. On a verb, it makes a dependent clause. Example de A – Uldall 1.13:

yámmacwí ka ťáqhá tslhuptéumá máhhíka.

Having finished eating, we traveled all night, then we arrived.

The *ka* just comes at the end of the dependent clause *yámmacwi*. Despite de Angulo's and Uldall's implicit assurance that they all ate, it is possible that the singular 3rd person might not mean an impersonal "one finished eating" but literally "when he finished eating we traveled all night".

The ka of máhhííka "all night" has a different origin. The root is máh "dark" (e.g. tiċumáhhí "get dark"). The noun máhhí "dark, night" may have -wi "having, belonging to" with the w assimilated to the final consonant (cp. láhha "with the head"). A common usage is máhhí issi "in the middle of the night; midnight", and we see Chú máhhíwáté ċé tykúuwí tínímmááci. "He couldn't see anything in the dark." In máhhíkca "a night", the individuating suffix -ca(n) is attached to máhhík, which is not in the database. The suffix -k "time of" is seen in names of seasons and months, e.g. iiwáámak "autumn", the time for iiwáámi "going in". Then máhhííka "all night" adds the stative/locative -wa with the w lost after the consonant. We have two of the parallel words for "day"; the other two are in parentheses:

máĥ	dark	(mát)	(light?)
máhhí	dark, night	(máttí)	(daylight?)
máȟhíkca	a night	máttíkca	a day
máȟhííka	all night	máttííka	all day

Both *máh* "dark" and *huk* "black" are in *tícumaahóktumi*, *wincumaahóktumi* "completely dark". I reported the following to the o-issi group in the middle of the month.

фаs	eye, face	tikúúṗascumáké'	put (poultice) on eyes
		<i>passílóo</i>	buckeye
		yúúľaṗas	ripe buckeyes, ripened on ground
		icaṗsááci	wash face
		yááṗáásí	has blemish/sore/disease on face
		timaaṗáási	acne, rash

These previously arbitrary words now have an easily understood explanation of their meanings. The (CV)CVC(CV) template for verb stems is further vindicated. We also see here another root that alternates between CVC and CC forms. The six we've identified so far are: laq, k^hay , kil, pas, qat, qay, so this is now in the C(V)C sheet of the CVCroot spreadsheet.

In the above examples, $\dot{p}assi$ is a plural of $\dot{p}as$ (cp. $itt^h\dot{u}uni$ issiilóo "our people", \dot{o} tissa issi u "speak in the Indian manner!", etc. The more common plural is with $\dot{c}o$ or sometimes with the "individuating/several" suffix -can.) A 'doublet', a pair of words with intersecting distribution/meaning, provides clues to language history. $\dot{A}asa$ might at an earlier stage have been $\dot{p}aasa$, or one of the two morphemes $\dot{a}asa$ vs. $\dot{p}as$ might be an unrelated innovation. The possibility that u "tears" is a compound with u "water" + u suggests that u might be the older form. We can make a parallel supposition for u asci "rain" as a compound with u "do".

The óo "tree/plant/bush" suffix (-op in Atsugewi) identifies the origin, source, or basis from which the harvest is taken. We see it above, in passílóo "buckeye". Just as acorns derive from oak trees, individual humans derive from their family tree, their ancestors and their family of relatives. Is it possible that wilóo referring e.g. to a deceased relative might be analyzed as -wi "having, characterized by, belonging to" plus this "source" suffix óo? The ranges of meanings for both suffixes need to be tested against the database. I don't say itthú tatýúlóo (which sounds like a bush from which mothers are harvested), but rather itthú tatýúlóo my late mother.

Connor asked for

I've been usability-testing Connor's new O-issi keyboard customization, which he created wtih Keyman. I previously used Keyman, a product of the Australian company Tavultesoft, beginning in the 1990s. When Jim Bauman proposed the Amerindi keyboard customization that could be used for diverse languages I changed, partly because we could not be certain of the future of Tavultesoft. Today, Keyman is a cross-platform product. This means that Connor's O-issi keyboard will work on tablets and phones as well as on Windows and Linux

computers. (Last I heard, Chromebook support is still in the development queue, but the Chrome OS keyboard can be remapped, and Keyman Web is always available.)

I haven't made any instructional videos since these two in August

- <u>Laryngealized stops</u>
- Plain vs. aspirated stops

It's on the radar.

here.

Connor and Paul have both been developing language for restricted domains. For a "brushing teeth" domain, Connor and I worked on figuring out a word for the thing you brush your teeth with, which could be translated to English as "toothbrush". We came up with three candidates, and the consensus choice seems to be *tintaphááciwé*, "something you brush or sweep around with", which might be shortened in the usual manner to *taphááciwé* or even to *tapháácé*For the record (and for a wider audience) that interim report to the o-issi group is inserted

Toothbrush: how to make a new word

Revitalizing Íssi wa Ó Tissi in today's world will require words that aren't in the database. The language contains resources for creating new words. These few pages illustrate the process of creating a verb that describes brushing teeth, and then getting from that verb a word for the thing that you use to do that—a toothbrush. Because this is an addition to the vocabulary, it is subject to community approval and use.

What's in a verb stem?

In this language, to create a new noun that names a thing, we typically start with a verb that describes what you do with that thing. To create a noun for "toothbrush" we first have to build a verb stem for "brushing teeth", perhaps in combination with the noun $ii\dot{c}a$ "teeth". From that verb stem we can make a noun for the thing that you brush your teeth with—a toothbrush. At the end you'll see three candidates, each with a long form and two short forms:

- tintáphaacíwé, táphaacíwé, táphaacé
- tintaalúúcíwé, taalúúcíwé, taalúúcé
- tintaatúúlíwé, taatúúlíwé, taatúúlé

The X-Y-Z template for the most common type of verb stem has three verb roots. The gloss for the template is "by doing X do Y while doing Z". To illustrate, here's a verb where the main CVC (consonant-vowel-consonant) root is *piċ*.

ticaapíččúcí "pick up (thread, something delicate)"

	by doing X	do Y	(while doing Z)	
ti-	ca	piċ	ću	ci
	grasp, use fingers	pinch	rise, lift	

- The main root Y is typically a CVC syllable like *pić* (sometimes CCVC, as we shall see).
- X and Z are CV roots which, like adverbs in English, make the meaning more specific when they are present.
- Some other morphemes go before or after the stem. The prefix *t* (plus the vowel *i*) is at the beginning; the root *c* "do" (plus the vowel *i*) comes at the end.

Some CVC roots may be reduced to CC with a vowel inserted after it. In the root $pi\dot{c}$ the \dot{c} changes to s when it is reduced to ps "pinch". (Because of words like $tul\acute{u}p\acute{c}\acute{c}i$ "sunset" we know this doesn't always happen when p comes before \dot{c} .) Examples:

ticapsítýéimi "tear off a piece" tilapsííli "eat with fingers"

Another example is pas/ps "with the eyes/face", in e.g. tikúúpascumi "press (a poultice) on the eyes", ticapsááci "wash face".

The "tooth / bite" root

On the analogy of *ticapsááci* "wash face" we might consider making a verb stem around the root for teeth. That root is \dot{c} when it's the main root, as in *tiićí* "bite", *sóóćá* "I bite", but \dot{c} wa otherwise, as in *saċwaaq̇́éesi* "I break it by biting". We're not supposed to bite the toothbrush, as this root says, so this root seems to be out of contention. When we get a verb that describes the activity involved in brushing teeth, we could add the noun *iiċá* "teeth" to say what it is we're brushing, if the word would be ambiguous without it. Most words are ambiguous, so that we require context to know exactly what the speaker intended. through usage and custom some meanings become more strongly or generally expected.

The "clean off / polish" root

For example, the root *luc* is used for cleaning off or polishing. We could say *titaalúúci qá iićá* "clean off the teeth, polish the teeth", but that doesn't get us a noun meaning "toothbrush" unless we use both words: *iićá ú titaalúúcé* perhaps (though the possessive is maybe a bit odd). *Titaalúúcé* talks about any kind of cleaning or polishing implement, not just toothbrushes.

The "suds" root

We're using toothpaste with that brush, so we can consider *tul* "foam, suds". Since *tincaatuuli* is already used for washing clothes and such (the *n*- is for repetitive activity), and *ca* suggests getting your hands working with those things right down in the suds, it would be better to begin the stem with *ta* indicating linear motion with an implement, as in *titaaluuci* and *titaaluuce*. So, *tintaatuule* could be another general-purpose cleaning implement, this one involving suds, and with *iica* "teeth" in the context either explicitly or implicitly we understand it to be a toothbrush.

The "brush/sweep" root

The toothbrush commercials have been selling the suds for years, but the point is to get the bristles to move stuff off the teeth, so let's build on the analogy of $ticuph\acute{e}$ "hairbrush". The X morpheme in the first slot of $ticuph\acute{e}$ is cu "thrust, flow", describing the long motion for brushing long hair. The verb "brush hair" is not in the database, but it must be $ticuph\acute{t}$ ici, one of the large class of verbs with c "do" at the end of the verb stem. The final $-\acute{e}$ makes an implement noun from the verb stem—the thing with which you do what the verb describes.

Once a noun is made from a verb it is often shortened in use. For example, $ticaak^h \acute{a}\acute{a}p\acute{e}$ "finger-ring" is shortened to $caak^h \acute{a}\acute{a}p\acute{e}$. We may presume that $ticup\acute{h}\acute{u}\acute{c}\acute{e}$ "hairbrush" was the longer form, though all we have is Jim Bauman's upriver form $ticup\acute{h}\acute{e}$ "hairbrush" which omits the helping verb" c.

A CVC/CC root

In the second "do Y" slot, the main root is $p\vec{h}$, so this must be one of those CVC roots which are sometimes reduced to CC (under conditions TBD). The other such CVC/CC roots that we have identified so far are listed in the C(V)C tab <u>in this file</u>. There, you can see that the dropped vowel is usually a (in one root it is i). On this basis, I assume that the full form of the root is $pa\vec{h}$, though I have not found it in the database. This contrasts with $pa\vec{h}$ "using the face or eyes", which I described in the monthly report for December. (Examples include tincepainting in the database include tincepainting include tincepainting in the one's eyes", tiphaa "face, turn toward".) Here are some words with this pah/ph root.

		X		Y	Z	
taliphi; liphe	sweep; broom	li	extend hand/arm	pȟ		
tóphi	cover up, bury	o-/awa-	TBD	p'n		
tákup ^h itcí.	knock something off with hand	ku	press with hand	p'n	i + ta	c
	brush dust off with hand					
tilápȟaací	untie, release (hair, a net)	la	linear movement	pȟ		c

In the stem of *tákuphitcí* "brush dust off it with hand" there are a couple of changes in the shapes of morphemes that need some explanation:

- The final *t* is a reduced form of *ta* "make a line", i.e. move linearly, line things up, carry out a sequence, etc. In the "while doing Z" template slot *ta* is often glossed "toward, in a direction".
- The default vowel i is inserted between $p\vec{h}$ and t.

These changes fit the word to a pattern of length, pitch, and stress which is still TBD. To conform to this patterning, a vowel may be dropped, changing CVC to CC and changing CV to C, as with ta above; or the default vowel i may be inserted to prevent consonants from clustering together in one syllable, as with the vowel i inserted between ph and ta. The syllables of that word are ta-ku-p-hit-ci. We will be able to analyze the prosody of the language (as this kind of patterning is called) based on examples such as this, in which the shapes of the morphemes change depending on the syllabic context and where the stress falls.

Back up out of the rabbit hole, then, and onward.

So what does pah/ph describe?

The verb *tophi* "cover it up, bury it" describes covering something with loose material like dirt, whereas covering something with a blanket or a slab is built around the root *leq* "flat surface". In *tiláphaací* "untie, release", the last example in the table above, material that was bound is made loose. Two places where it occurs are in a story told by Henry Wool. (The second line in each case shows de Angulo's transcription.)

ckwalápňaací kac ^h ú t ^h iyí qa kwán.	Fox untied his hair (released it from the hairpin).
tykwaláphaací kacʰú tʰiyí qa kwán.	
ckwaláphaací qa iiqiilá.	He untied the net.
tsìkùàlápḥà·dʒí qà ì'qì·'là.	

Though it is the same speaker and in the same text, de Angulo writes \vec{h} in one occurrence of the verb and plain h in the other. He often misheard things, but that h/\vec{h} contrast can be hard to discern (especially after a voiceless-released consonant). I, too, wrote a plain h when Grandma Lela said t l l a p l h h d a constant it it it it is certainly fair to ask if <math>p a h/p h actually might be a different morpheme with a plain h, but this "untie" verb stem would be its only occurrence in the lexicon. If on the other hand we accept these words as c k w a l a p l h h h h h, then the p a h l h h root seems to refer to any disorganized mass of separate elements, including dirt, dust, hair, and the strings or cords of a collapsed net. If we presume that the gloss for p a h l h h h is something like "loose, unconstrained, unorganized", then we aren't going to imagine that we use a hairbrush to clean off h a l h h and dirt.

Splat

There's also $t \hat{l} a p \hat{h} a \hat{d} a$ "squash it with something!" (e.g. a bug). It might be possible to extend the meaning of the $p a \hat{h} / p \hat{h}$ root to include this, but the consonant in the Y slot is not t, it is laryngealized

 \dot{t} . I am not (yet) aware of any other occurrences of \dot{t} in the Z template slot. We do have two CV roots beginning with \dot{t} . One is $\dot{t}u$ "using fist" in e.g. $t\dot{t}\dot{t}uu\dot{q}\dot{a}\dot{a}li$ "hit with fist" (combined here with $\dot{q}al$ "hit"), but this is not how we use a toothbrush. Nor does $\dot{t}e$ "broadly" suit our purpose without a considerable stretch of semantics. It is seen in e.g. $yanaa\dot{t}\dot{e}\dot{e}l\dot{e}\dot{q}i$ "he flattens it" together with $l\dot{e}\dot{q}$ "flat"; compare $s\dot{a}\dot{a}le\dot{q}\dot{q}i$ "I flatten it" which lacks $\dot{t}e$.

Instead, I believe that *phat* is an onomatopoeic syllable, like *qhot* "crush (chalky, crumbly material)". Parallel to *qhot qhot yuwi* "it's crumbly" and *tiċiqhoóta* "crunch it!", perhaps one could say *phat phat yuwi* "it makes that sound when you squash it" and *tiċipháta* "squash (that bug) with your foot!".)

Brushing teeth with a toothbrush

Time to build a verb stem in the XYZ template. We'll only use the X and Y slots. (You could always add something in the "while doing" Z slot, e.g. $\dot{c}u$ if you're brushing your teeth while going somewhere.)

In the X slot of tiláphaací "untie" the CV root is la, in titaalúúci qá iicá "clean off, polish" the first morpheme in the stem is ta, and in ticapsááci "wash face" it is ca. The meanings of la and ta are similar. In the first template slot in verbs, la means "make a line or sequence" as in making a fence, or "move in a line" as in flying, and ta is for moving an implement in a linear or progressive way, with perhaps a suggestion that the implement itself has a linear or long shape. The meaning of ca in the X slot is "using fingers, grasping". So as we build a verb that describes brushing teeth, we'll start with ta because we move the stick-like toothbrush in a linear way, or with ca, because you work it by grasping it.

The Y slot is the main focus of discussion above. We have three options to try in the Y slot: luc "clean off, polish", tul "foam, suds", and ph + vowel + c "do".

The *n*- prefix at the beginning of the XYZ stem describes iterative, repeated activity. Finally, because we're working the toothbrush around about, we're going to want -*iwi* on the end of the stem. Choosing *ta* for the first slot, the next step is to insert the three roots into the "do Y" second slot of the template and see what we get.

The three roots under consideration are *luc*, *tul*, and $p\dot{h}$ (+ vowel + c, making a CVC syllable).

brush teeth	toothbrush	
tintaalúúciwí qá iićá	tintaalúúciwé	"something you move around to clean things off or
	taalúúciwé	polish them"
	taalúúcé	
tintaaťúúliwí qá iićá	tintaaťúúliwé	"something you stir around in suds"
	taaťúúliwé	
	taaťúúlé	
tintapȟááciwí qá iiċá	tintapȟááciwé	"something you brush or sweep around with"
	tapȟááciwé	
	tapĥáácé	

These are the candidate words for "brushing teeth" and "toothbrush". Which shall we adopt? [The consensus so far has been in favor of *tintaphááciwí*, etc. Bear in mind that in a different context, where toothbrushing is unlikely and another fitting activity is likely, each of these words would describe a different activity and a different implement!]

Will we hear a dialog like this?

Qá iicá kitapháácíwáké. Miimú capháácé wa, cílléq! Hápťiisámé' yá thámiýí!