

## Statives in ʔayʔajuθəm and St'át'imcets\*

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**Abstract:** In this paper, we examine the semantic interpretation of stative marking in ʔayʔajuθəm (Comox-Sliammon) and St'át'imcets (Lillooet). Examining statives built on bare roots, we find that ʔayʔajuθəm statives encode 'target states', while St'át'imcets statives encode 'result states' (Parsons 1990, Kratzer 2000). More specifically, ʔayʔajuθəm statives encode the (potentially temporary) state brought about by the event denoted by a change-of-state verb, while St'át'imcets statives encode the irreversible state which holds simply by virtue of an event having occurred. We also examine the combination of the stative morpheme with the transitivizers found in each language. In ʔayʔajuθəm, we find that the stative morpheme can co-occur with the control and causative transitivizers, but not with the non-control transitivizer. With the control transitivizer, the interpretation is always that of the agent 'maintaining' a state, while with the causative transitivizer both 'target state' and 'maintaining state' readings are found. In St'át'imcets, the stative morpheme occurs only with the causative transitivizer and always gives rise to a 'maintaining state' reading.

**Keywords:** ʔayʔajuθəm (Comox-Sliammon), St'át'imcets (Lillooet), stative aspect, semantics

### 1 Introduction

There is a morpheme glossed 'stative' in both ʔayʔajuθəm (Comox-Sliammon, ISO 639-3: coo) and St'át'imcets (Lillooet, ISO 639-3: lil), which at first glance appears to perform similar functions in both languages. In ʔayʔajuθəm, the morpheme has a number of phonologically conditioned allomorphs: it may be realized as a suffix *-ít*, an infix *-í-*, or a high tone with no segmental content (see Blake 2000:111, 174; Watanabe 2003:410; Mellesmoen & Huijsmans 2019).<sup>1</sup> In St'át'imcets, the stative marker is a prefix *(ʔə)s-*, descended from proto-Salish *\*ʔac-*, which has reflexes in every Salish language except ʔayʔajuθəm and Bella Coola (Nuxalk) (Kinkade 1996:8).

In both languages, the stative morpheme combines with change-of-state roots to create a predicate of the type that is often labelled 'resultative' in the descriptive literature on Salish. The semantics of these stative predicates has not been previously examined in detail for either language.

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<sup>1</sup> We use an accent above a vowel in ʔayʔajuθəm to refer to high tone, realized acoustically as raised pitch: this notation follows Mellesmoen and Huijsmans (2019). Blake (2000) and Watanabe (2003) describe the same prosodic contrast as involving stress placement or foot structure. In St'át'imcets, an accent above a vowel denotes primary stress.

We show that the meaning of the stative in each language is different. Adopting terminology from Parsons (1990, via Kratzer 2000), we argue that the *ʔayʔajuθəm* statives in (1b) encode TARGET STATES, while the *St'át'imcets* statives in (2b) encode RESULT STATES.<sup>2</sup>

(1) *ʔayʔajuθəm*:

<p>a. <b>Eventive</b></p> <p>λəpx<sup>w</sup> /λəpx<sup>w</sup>/ 'get broken'</p> <p>təq /təq/ 'get closed'</p> <p>gəq /gəq/ 'get opened'</p>	<p>b. <b>Stative</b></p> <p>λəpéx<sup>w</sup> /λəp&lt;í&gt;x<sup>w</sup>/ 'be broken'</p> <p>təqét /təq-ít/ 'be closed'</p> <p>gəqét /gəq-ít/ 'be open'</p>
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(2) *St'át'imcets*:

<p>a. <b>Eventive</b></p> <p>mays /mays/ 'get fixed'</p> <p>pulh /puh/ 'get boiled'</p> <p>tseq /cəq/ 'get put face up'</p>	<p>b. <b>Stative</b></p> <p>(e)smays /(?ə)s-máys/ 'be fixed'</p> <p>(e)spúlh /(?ə)s-púl/ 'be boiled'</p> <p>(e)stséq /(?ə)s-cəq/ 'be put face up'</p>
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Not all examples with the stative morpheme can be characterized as yielding a result or target state. When the stative morpheme combines with stems suffixed with the control transitive *-t* in *ʔayʔajuθəm*, for instance, the reading is rather one of MAINTAINING STATE. This refers to a state which is under the active control of an agent and persists until an event culminates or terminates.

(3) *ʔayʔajuθəm*:

<p>a. <b>Eventive control transitive</b></p> <p>χεč̣ét /χič̣-ít/ 'point at it'</p> <p>juθot /juθ-út/ 'push it'</p> <p>ʔemət /ʔim-ít/ 'step on it'</p>	<p>b. <b>Stative control transitive</b></p> <p>χε:č̣ét /χič̣-ít/ 'be pointing at it'</p> <p>ju:θót /juθ-út/ 'be pushing on it'</p> <p>ʔε:mét /ʔim-ít/ 'be holding it in place w. one's foot'</p>
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Transitive statives in *St'át'imcets* are morphosyntactically different from those in *ʔayʔajuθəm*. The control ('directive') transitivizer *-Vn* is simply ungrammatical with stative marking, and is uniformly replaced by the causative transitivizer *-s*.<sup>3</sup> Nevertheless, once independent differences

<sup>2</sup> Unless otherwise stated, all examples and data presented in this paper come from fieldwork conducted by the authors (vf = volunteered form, sf = suggested form). Examples throughout are given with both an orthographic representation and a phonemic representation. Phonemic transcriptions are given in the North American Phonetic Alphabet (NAPA). Glossing abbreviations used in this paper are: 1 = 1<sup>st</sup> person, 3 = 3<sup>rd</sup> person, C/D = complementizer/determiner, CAUS = causative, CONJ = conjunction, COP = copula, CTR = control transitive, DET = determiner, ERG = ergative, EXCL = exclusive, EXIS = existential enclitic, FUT = future, INFER = inferential, IPFV = imperfective, NEG = negation, NMLZ = nominalizer, NCTR = non-control transitive, NTS = non-topical subject, OBJ = object, PASS = passive, PL = plural, POSS = possessive, PROG = progressive, PST = past, QUEX = 'quexistential' (WH-pronoun), RLT = relational, RDR = redirective, RPT = reportative, SBJ = subject, SBJV = subjunctive, SG = singular, and STAT = stative.

<sup>3</sup> That this is a purely morphological constraint in *St'át'imcets* is shown by the fact that other transitivizers, including the redirective (applicative) transitivizer *-cit /-xit/*, which has control semantics, are fully compatible with stative marking:

between the languages are taken into account, stative causatives in St'át'imcets are semantically close to stative control transitives in ʔayʔajuθəm: in particular, they also have a similar maintaining state reading.

(4) *St'át'imcets*:

- |   |  |
|---|--|
| <p>a. <b>Directive (control) transitive</b></p> <p>áts'xən /ʔácχ-ən/ 'see it'</p> <p>téqən /təq-ən/ 'touch it'</p> <p>cátan' /xát-an/ 'lift it'</p> | <p>b. <b>Stative causative</b></p> <p>(e)s7ats'xs /((ʔə)s-ʔácχ-s/ 'be watching it'</p> <p>(e)steqs /((ʔə)s-təq-s/ 'be holding it'</p> <p>(e)scat.s /((ʔə)s-xát-s/ 'be holding it up'</p> |
|---|--|

Another goal of this paper is to describe these maintaining state interpretations and their relationship to the 'resultative' type interpretations shown in (1–2).

The remainder of the paper is organized as follows. Section 2 discusses the meaning of statives built on bare roots, including the similarities and differences between ʔayʔajuθəm and St'át'imcets. Section 3 examines the distribution and meaning of stative morphology on transitive verbs in the two languages. Section 4 concludes.

## 2 Statives built on bare roots

Eventive bare roots in ʔayʔajuθəm and St'át'imcets are unaccusative and telic. When the stative morpheme combines with a bare root, the form is a 'resultative' predicate (5–6), repeated from (1–2).<sup>4</sup>

(5) *ʔayʔajuθəm*:

- |   |   |
|---|---|
| <p>a. <b>Eventive</b></p> <p>λəpx<sup>w</sup> /λəpx<sup>w</sup>/ 'get broken'</p> <p>təq /təq/ 'get closed'</p> <p>gəq /gəq/ 'get opened'</p> | <p>b. <b>Stative</b></p> <p>λəpéx<sup>w</sup> /λəp&lt;í&gt;x<sup>w</sup>/ 'be broken'</p> <p>təqét /təq-ít/ 'be closed'</p> <p>gəqét /gəq-ít/ 'be open'</p> |
|---|---|

(6) *St'át'imcets*:

- |   |  |
|---|--|
| <p>a. <b>Eventive</b></p> <p>mays /mays/ 'get fixed'</p> <p>pulh /puh/ 'get boiled'</p> <p>tseq /cəq/ 'get put face up'</p> | <p>b. <b>Stative</b></p> <p>(e)smays /((ʔə)s-máys/ 'be fixed'</p> <p>(e)spúlh /((ʔə)s-púl/ 'be boiled'</p> <p>(e)stséq /((ʔə)s-cəq/ 'be put face up'</p> |
|---|--|

(i) *St'át'imcets*:

stcúsmín'cits.  
s-tx<sup>w</sup>ús-mín-xi[t]-c  
STAT-look-RLT-RDR-1SG.OBJ  
'Mind it for me.'

(ii) *St'át'imcets*:

wá7lhkan	scweyáyawtcit	kw sBill	ta pal7usá7a.
waʔ=łkan	s-x <sup>w</sup> əyáyawt-xit	k <sup>w</sup> =s-Bill	ta=palʔ-usáʔ=a
IPFV=1SG.SBJ	STAT-owe-RDR	DET=NMLZ-Bill	DET=one-round.thing=EXIS

'I owe Bill one dollar.'

<sup>4</sup> There are apparent exceptions to this generalization, pointed out in Watanabe (2003:416). We leave these aside for future research and focus here on the general pattern.

The term ‘resultative’ is only a descriptive label, however, not an analysis, and it wrongly groups statives in  $\lambda y\lambda a\lambda u\theta\theta\theta m$  and  $St'at'imcets$  together.

Adopting terminology originally from Parsons (1990), we argue that the  $\lambda y\lambda a\lambda u\theta\theta\theta m$  ‘resultatives’ in (1) encode TARGET STATES, while the  $St'at'imcets$  ‘resultatives’ in (2) encode RESULT STATES. Kratzer (2000) uses these terms to describe two different subclasses of the German adjectival passive: those that encode the (potentially temporary) state brought about by the occurrence of a change-of-state predicate, and those that encode the state of an event having occurred (a state that exists forever after the occurrence of any event). The first kind of state she calls a target state, and the second a result state. An example of a target state passive is given in (7), while an example of a result state passive is given in (8). The target state passive in (7) is compatible with *immer noch* ‘still’ since the state described is temporary, while the result state passive in (8) is not, because result states are by definition permanent.<sup>5</sup>

(7) *German:*

Die	Geisslein	sind	immer noch	versteckt.
The	little goats	are	still	hidden.

(8) *German:*

Das	Theorem	ist	(* immer noch)	bewiesen.
The	theorem	is	(* still)	proven.

As already hinted in the characterizations above, the lexical aspectual properties of the predicate determine which reading a German adjectival passive will receive. If a stem encodes an event leading to a target state, the adjectival passive built on this stem will have a target state reading. If a stem does not encode a target state, the adjectival passive built on this stem will have a result state reading.

In Kratzer (2000), the stativizer for target state readings combines with a predicate that encodes both an event and a target state and existentially closes the event argument, backgrounding the event and foregrounding the target state, as in (9).

(9)  $\lambda R\lambda s\exists e . R(s)(e)$  (Kratzer 2000:8)

This means that target states can only be built from predicates that lexically encode a target state argument, in contrast to result states, which simply require that the event described by the predicate has occurred preceding the reference time. Kratzer characterizes the result state stativizer as an aspectual operator which returns a predicate of times, as shown in (10).

(10)  $\lambda P\lambda t\exists e . P(e) \ \& \ \tau(e) < t$  (Kratzer 2000:12)

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<sup>5</sup> Note that if a state passive passes the *immer noch* ‘still’ test, this distinguishes it as a target state passive, but if it fails the test, this does not necessarily mean that it is a result state passive; individual-level target states like ‘dead’ do not typically pass the test except in exceptional contexts, such as where the dead come back to life (Kratzer 2000:3).

## 2.1 ʔayʔajuθəm target state statives

We show that ʔayʔajuθəm statives built on bare roots are only licensed when the predicate provides a target state and this target state holds at the reference time.

In order to investigate the distinction between target and result states in the languages under investigation, we designed storyboards to capture a target state interpretation (if available) for a specific root. Over the course of the story, the target state was then reversed or altered to test if it needed to hold at the reference time for felicitous use of the stative-marked form. We also noted whether the stative form was volunteered in each context by the speaker, and then checked whether the stative form could be felicitously used in each context in follow-up elicitation.

Each picture was shown as an individual image in a “flipbook-style”, rather than in a traditional “comic-style” storyboard. This allowed for more targeted elicitation, prompting the description of specific semantic contexts with images progressing through minimal adjustments, while not allowing the speaker to look ahead or view other images of the story at the same time.

Our Broken Cup storyboard is illustrated in Figures 1–7; the captions provide a minimal description of the English prompt associated with each image. We walked through the storyboards with our ʔayʔajuθəm-speaking consultants in English, and then had them go through and tell the story in ʔayʔajuθəm. Subsequently, we went back to the most critical images (showing the key semantic contrasts) and asked whether target ʔayʔajuθəm sentences could be used to describe the image. This resulted in a combination of spontaneous speech and judgements on the grammaticality and felicity of constructed sentences.



**Figure 1:** Marianne had a cup.



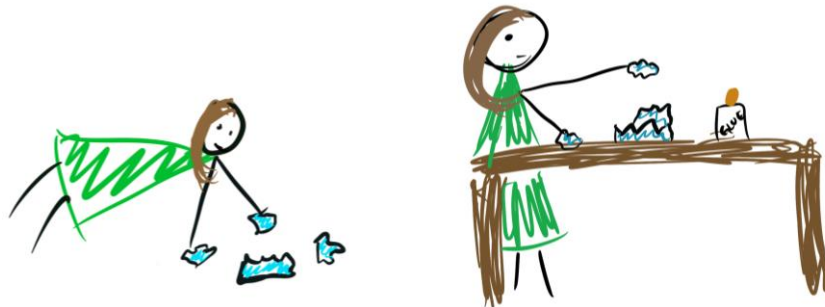
**Figure 2:** Marianne dropped her cup.



**Figure 3:** Marianne’s cup broke.



**Figure 4:** The cup is broken.



**Figure 5:** Marianne picked up the pieces. **Figure 6:** Marianne glued the cup together.



**Figure 7:** The cup is glued back together. (“Can you use the stative?”)

The results for this storyboard with one  $\text{ʔayʔaju\theta\text{ə}m}$  speaker are given in (11). While the consultant did not initially volunteer the form in (11a) for Figure 4, she found it perfectly felicitous when offered as a description of this point in the story. In contrast, the same stative-marked form was rejected when provided as a description of Figure 7, where the target state has been reversed (11b).

(11)  $\text{ʔayʔaju\theta\text{ə}m}$ :

a. *Context: The cup is broken. (Figure 4)*

$\text{pi:l\acute{e}t}$ .  
 $\text{pi-l-ít}$   
 get.shattered-STAT  
 ‘It’s shattered.’ (sf)

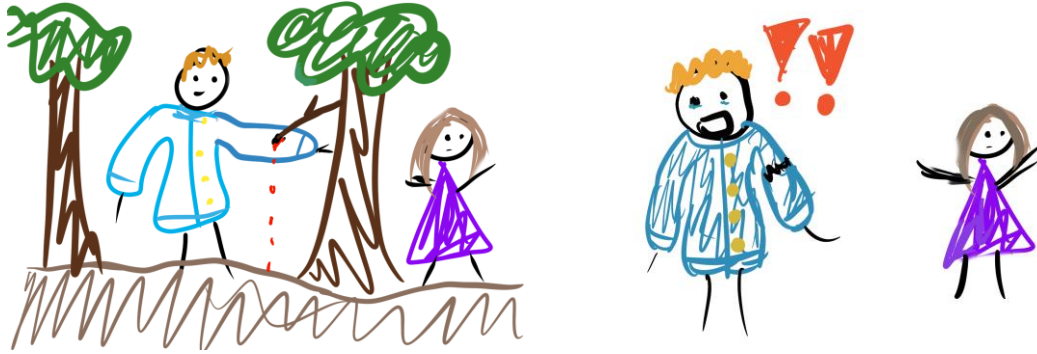
b. *Context: The cup was broken but has been repaired. Cracks are visible. (Figure 7)*

$\#\text{pi:l\acute{e}t}$ .  
 $\text{pi-l-ít}$   
 get.shattered-STAT  
 ‘It’s shattered.’ (sf)

A second set of pictures, extracted from a storyboard depicting a coat being ripped and then sewn up, is shown in Figure 8.<sup>6</sup> As with the sentences elicited for the Broken Cup storyboard (11),

<sup>6</sup> In Figure 8, we show only the most crucial images from the Ripped Coat storyboard; we adopt this practice for the remainder of the paper.

the  $\lambda\alpha\gamma\lambda\alpha\upsilon\theta\alpha\mu$  sentence with the stative form in (12a) was judged felicitous for the left-hand panel of Figure 8, which depicts the coat as ripped. The same form was judged infelicitous for the right-hand panel of Figure 8, at which point the coat has been repaired, as shown in (12b). Note that even visible evidence of the previous target state, such as cracks in the repaired cup in Figure 7 and stitches on the repaired coat in Figure 8 (righthand panel), was not sufficient for felicitous use of the stative form once the target state was reversed.



**Figure 8:** Daniel’s coat caught on a tree and ripped (left), but Gloria sewed it up (right).

(12)  $\lambda\alpha\gamma\lambda\alpha\upsilon\theta\alpha\mu$ :

- a. *Context: Daniel goes for a walk in the woods. His coat gets snagged on a tree and torn. (Figure 8, left-hand panel)*

$\rho\alpha\chi\acute{\epsilon}\tau$	$t\acute{\alpha}$ $\kappa\epsilon\pi\omicron\varsigma$	Daniel.
$\rho\acute{\alpha}\chi$ - $\acute{\iota}\tau$	$t\acute{\alpha}$ = $\kappa\alpha\pi\upsilon$ -s	Daniel
get.ripped-STAT	DET=coat-3POSS	Daniel
‘Daniel’s coat is ripped.’ (sf)		

- b. *Context: Gloria fixes Daniel’s coat. It’s still possible to see where it’s been mended. (Figure 8, right-hand panel).*

# $\rho\alpha\chi\acute{\epsilon}\tau$	$t\acute{\alpha}$ $\kappa\epsilon\pi\omicron\varsigma$	Daniel.
$\rho\acute{\alpha}\chi$ - $\acute{\iota}\tau$	$t\acute{\alpha}$ = $\kappa\alpha\pi\upsilon$ -s	Daniel
get.ripped-STAT	DET=coat-3POSS	Daniel
‘Daniel’s coat is ripped.’ (sf)		

The past tense suffix  $-o\acute{\iota}$  /-(?) $u\acute{\iota}$ / was volunteered in (13) as a means of rescuing (12b.)

(13)  $\lambda\alpha\gamma\lambda\alpha\upsilon\theta\alpha\mu$ :

- Context: Gloria fixes Daniel’s coat. It’s still possible to see where it’s been mended. (Figure 8, right-hand panel)*

$\rho\alpha\chi\acute{\epsilon}\tau\omicron\iota$	$t\acute{\alpha}$ $\kappa\epsilon\pi\omicron\varsigma$	Daniel.
$\rho\acute{\alpha}\chi$ - $\acute{\iota}\tau$ - $u\acute{\iota}$	$t\acute{\alpha}$ = $\kappa\alpha\pi\upsilon$ -s	Daniel
get.ripped-STAT-PST	DET=coat-3POSS	Daniel
‘Daniel’s coat was ripped.’ (vf)		

The past tense suffix shifts the reference time from the point in time represented by the picture (when the target state does not hold), to a previous point in the story (when the target state does hold).<sup>7</sup>

Some  $\text{ʔayʔajuθəm}$  bare roots we tested using storyboards turned out to be ungrammatical with stative morphology. For instance,  $\text{ʔε:mét /ʔim-ít/}$ , from  $\text{ʔem- /ʔim- /}$  ‘step’, was not accepted by any of our  $\text{ʔayʔajuθəm}$ -speaking consultants, even when they were provided with a context designed to facilitate a target state reading (see below for a contrast with the equivalent root in *St’át’imcets*). The storyboard in Figure 9 (the Trodden Worm storyboard) was provided to facilitate a potential target state reading for  $\text{ʔε:mét /ʔim-ít/}$ , giving the action a visible consequence. As seen in (14), however,  $\text{ʔε:mét /ʔim-ít/}$  was not accepted and  $\text{máʔék /má<i>k/}$  ‘squished’ was suggested instead.

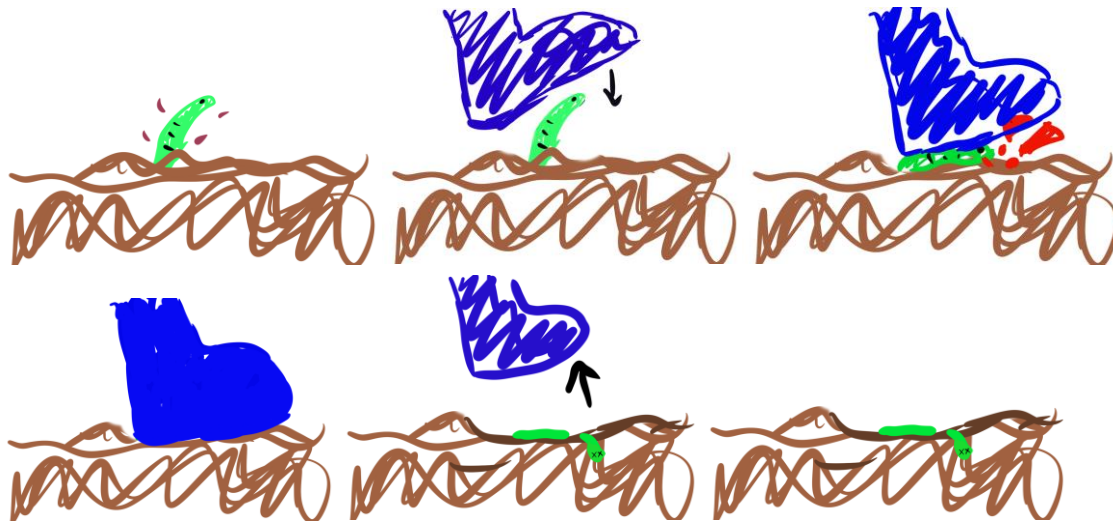


Figure 9: The Trodden Worm storyboard.

(14)  $\text{ʔayʔajuθəm}$ :

*Context: The worm has been squished (final two images in bottom right of The Trodden Worm storyboard in Figure 9).<sup>8</sup>*

- a. \* $\text{ʔε:mét}$              $\text{t}^{\text{h}}\text{et}^{\text{h}}\text{ek}^{\text{w}}$ .  
 $\text{ʔim-ít}$              $\text{t}^{\text{h}}\text{it}^{\text{h}}\text{ik}^{\text{w}}$   
 step-STAT    worm  
 ‘The worm is stepped on.’ (sf)
- b.  $\text{máʔék}$              $\text{t}^{\text{h}}\text{et}^{\text{h}}\text{ek}^{\text{w}}$ .  
 $\text{má<i>k}$              $\text{t}^{\text{h}}\text{it}^{\text{h}}\text{ik}^{\text{w}}$   
 get.squished<STAT>    worm  
 ‘The worm is squished.’ (vf)

<sup>7</sup>  $\text{ʔayʔajuθəm}$  has a null non-future tense with similar semantic properties to its equivalent in *St’át’imcets* (Matthewson 2006). The default reference time for unmarked stative forms is the utterance time, but this can be contextually overridden, when stative forms appear in narratives about past happenings, for instance.

<sup>8</sup> While nouns in argument positions in  $\text{ʔayʔajuθəm}$  are generally preceded by determiners (with the exception of proper names), they are frequently elided in connected speech, especially among younger speakers (see e.g., Watanabe 2003:79, Huijsmans et al. 2018:330).



The restriction demonstrated by the examples in (14) is predicted if the  $\text{ʔayʔajuθəm}$  stative marker only combines with roots that lexically encode a target state, and  $\text{ʔem} / \text{ʔim}$  ‘step’ does not do so. (Recall that the stative morpheme itself does not introduce a target state, but rather foregrounds a state already encoded by the root, as expressed in the formula in 9.) Additional rejected stative-marked forms in  $\text{ʔayʔajuθəm}$  are given in (15). We provided contexts intended to facilitate target state readings for these predicates, and also asked in follow-up questions whether the stative-marked forms were ever possible: however, consultants were unable to find any context where stative marking would be acceptable and seemed to reject the stative-marked forms as simply ungrammatical, rather than infelicitous in a given context.

(15)  $\text{ʔayʔajuθəm}$ :

- a. *Context: There’s is a murder victim found with a note in his mouth.*  
 \* $\text{q}^{\text{w}^{\circ}}\text{m}^{\text{é}}\text{t}$                        $\text{tə} \text{p}^{\text{ip}}\text{a}$ .  
 $\text{q}^{\text{w}}\text{um-í}\text{t}$                           $\text{tə}=\text{p}^{\text{ip}}\text{a}$   
 put.in.mouth-STAT    DET=paper  
 ‘The paper is in \*(his) mouth.’ (sf)
- b. *Context: No one is supposed to touch the delicate vases, but I find fingerprints on one (using a picture of a vase with fingerprints on it to support the context).*  
 \* $\text{q}^{\text{ə}}\text{p}^{\text{é}}\text{t}$                           $\text{tə} \text{nəpam}^{\text{əns}}$                           $\text{k}^{\text{w}} \text{q}^{\text{w}}\text{asəm}$ .  
 $\text{q}^{\text{ə}}\text{p-í}\text{t}$                           $\text{tə}=\text{nəp-amin-s}$                           $\text{k}^{\text{w}}=\text{q}^{\text{w}}\text{asəm}$   
 get.touched-STAT    DET=get.put.in-instrument-3POSS    DET=flower  
 ?? ‘The vase is touched.’ (sf)
- c. *Context 1: It says in the newspaper that one of the fugitives in a robbery case has been seen.*  
*Context 2: It says in the newspaper that one of the fugitives in a robbery case is being watched (tailed by a policeman).*  
 \* $\text{k}^{\text{w}}\text{a}$      $\text{k}^{\text{w}}\text{on}^{\text{é}}\text{t}$                        $\text{ʃ}^{\text{ə}} \text{p}^{\text{əp}}\text{a}^{\text{ʔa}}$ .  
 $\text{k}^{\text{w}}\text{a}$      $\text{k}^{\text{w}}\text{ən-í}\text{t}$                           $\text{ʃ}^{\text{ə}}=\text{p}^{\text{əp}}\text{a}^{\text{ʔa}}$   
 RPT    get.seen-STAT    DET=one.person  
 ?? ‘One guy is seen/watched.’ (sf)
- d. i. *Context 1: One ball is across the field and must have been kicked over there.*  
 \* $\text{y}^{\text{m}}\text{é}\text{t}$                           $\text{tə} \text{laspal}$ .  
 $\text{y}^{\text{ə}}\text{m-í}\text{t}$                           $\text{tə}=\text{laspal}$   
 get.kicked-STAT    DET=ball  
 ?? ‘The ball is kicked.’ (sf)
- ii. *Context 2: My wall has a footprint on it where someone kicked it.*  
 \*  $\text{č}^{\text{ə}}$      $\text{y}^{\text{m}}\text{é}\text{t}$                           $\text{tə} \text{ʔoq}^{\text{w}}\text{tən}$ .  
 $\text{č}^{\text{a}}$      $\text{y}^{\text{ə}}\text{m-í}\text{t}$                           $\text{tə}=\text{ʔ}^{\text{ə}}\text{q}^{\text{w}}\text{tən}$   
 INFER    get.kicked-STAT    DET=wall  
 ?? ‘The wall must be kicked.’ (sf)

Which particular roots are compatible with stative marking in  $\text{ʔayʔajuθəm}$  is not always predictable on the basis of English intuitions. While *closed*, *open*, and *broken* encode a target state

in English, like the corresponding forms in ʔayʔajuθəm (see 5a–c), and can therefore function as adjectival passives in English (as in e.g., *the closed door*), other predicates that can form target state statives in ʔayʔajuθəm do not translate into well-formed adjectival passives in English. For instance, (16) is judged grammatical and felicitous by our ʔayʔajuθəm consultants when describing a window that is lifted up and left open, but the corresponding English adjectival passive (as in the translation below) sounds odd.

(16) ʔayʔajuθəm:

*Context: A window that opens by sliding upwards is currently open.*

qahÉt                    tə məmkeyustən.

qəh-ít                    tə=məmkayustən

get.lifted-STAT    DET=window

?? ‘The window is lifted.’ / ?? ‘a lifted window’ (sf)

The fact that the distribution of the ʔayʔajuθəm stative is not predictable on the basis of translation is not surprising; the ability of a root to combine with stative morphology depends on its lexical semantic properties, and these properties may differ between translation equivalents in different languages. While the lexical nature of the restriction necessarily makes it difficult to determine exactly which roots will be able to combine with the stative, rough generalizations are possible. What seems to be required of ʔayʔajuθəm roots to allow them to combine with the stative is that they describe a change-of-state or change-of-position that continues to affect the argument undergoing the change after the event is completed. The examples in (14a–b) differ from the examples in (5) in requiring ongoing participation from the agent to maintain the effect on the patient, while with (15c–d) it is not clear that the predicate encodes an effect on the theme/patient argument at all; these roots seem to encode only an action/event.<sup>9</sup>

## 2.2 St’át’imcets result state statives

Our results for St’át’imcets are different. We used the same storyboards and a similar methodology. The stories were presented using a St’át’imcets script as a prompt to guide the elicitation by ‘co-narration’. The pictures in the storyboard were presented in the context of a conversation, where the consultant was asked questions in St’át’imcets to prompt an appropriate response or asked if a sentence in St’át’imcets was acceptable for a given picture.

Using this methodology, we found that for stativized bare root intransitives, the target state does *not* have to hold at the reference time: in other words, St’át’imcets statives seem to be sensitive only to the result state rather than the target state. We illustrate this finding with three storyboards.

The first storyboard involves the root  $\sqrt{cik}$  / $\sqrt{xik}$ / ‘push’, which surfaces as the bare intransitive verb *cik* /*xik*/ ‘get pushed’ and as the stative-marked verb (*e*)*scik* /(*ʔə*)*s-xik*/ ‘be pushed’. In the story, a car breaks down and the driver and passenger must figure out how to get it moving again. The driver and the passenger push it to try and get it to start, as pictured in the left-hand panel of Figure 10. Their efforts are unsuccessful, and nothing happens, as illustrated in the right-hand panel of Figure 10. At that point, the car has been pushed (i.e., there is a result state), but the pushing has had no effect (i.e., there is no discernable target state).

<sup>9</sup> *yim-* /*yəm-*/ ‘kick’ in (15d) refers only to the act of kicking, rather than kicking something *somewhere*, and so is perfectly compatible with the action of kicking something stationary, such as a large rock or tree stump. This is different from a predicate like *qəh* /*qəh-*/ ‘lift’ in (16), which necessarily involves a change of position for the patient argument.

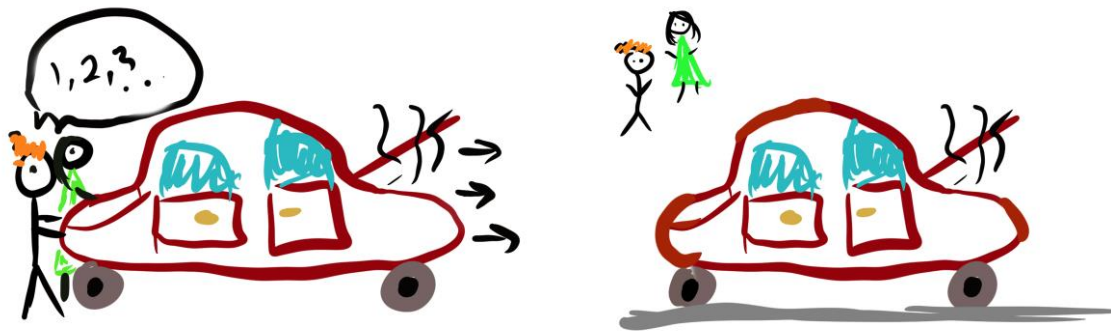


Figure 10: The Breakdown storyboard.

In response to the right-hand panel in Figure 10, our St'át'imcets-speaking consultant was asked whether the stative form *(e)scík /(?ə)s-xík/* would be appropriate.

(17) *St'át'imcets*:

*Interviewer*: 'What about *escík /ʔes-xík/*, if it's just been pushed?'

*Consultant*: 'Plan *escík /plan ʔəs-xík/* (= 'already pushed') would work.'<sup>10</sup>

The second storyboard depicts a visit by two friends to a carnival, where they take turns shooting at bottles in a shooting gallery. If they hit the bottle and it breaks, they win a prize. The first of the friends to try their luck hits a bottle, which shatters, as shown in the left-hand picture in Figure 11; but when the second friend tries, his bullet bounces off the bottle and it remains intact, as shown in the right-hand picture.



Figure 11: The Shooting Gallery storyboard.

Following the events depicted in Figure 11, a dispute ensues between the friends about whether a 'hit bottle' wins a prize, or just a 'shattered bottle'. The crucial test sentence is given in (18). There is no target state associated with the stative form *esqám't /ʔəs-qám't/* 'hit', yet it was judged to be felicitous in this context.

<sup>10</sup> It is important to note that the aspectual auxiliary *plan* 'already' does not shift the reference time into the past: its meaning is close to that of the perfect in English.

(18) *St'át'imcets*:

Wenácw t'u7	kwas	esqám't,	tsúkw t'u7
wənáx <sup>w</sup> =λu?	k <sup>w</sup> as	ʔəs-qam̄t	cúk <sup>w</sup> =λu?
true=EXCL	D/C+NMLZ+IPFV+3POSS	STAT-get.hit	finish=EXCL
kwas	cw7aoz	kwas	essék'w.
k <sup>w</sup> as	x <sup>w</sup> ʔaz	k <sup>w</sup> as	ʔəs-sák <sup>w</sup>
D/C+NMLZ+IPFV+3POSS	NEG	D/C+NMLZ+IPFV+3POSS	STAT-get.shattered

'It's true that it's been hit, it just hasn't been broken.' (sf)

Our third storyboard involves the 'Trodden Worm' storyboard given in Figure 9, but this time rewritten with a different (happier!) ending, as shown in Figure 12.



Figure 12: Trodden worm escapes unscathed in The Trodden Worm Redux.

In the 'Trodden Worm (redux)' scenario in Figure 12, the worm survives being trodden on by the boot with no apparent ill-effects. The consultant remarks:

(19) *St'át'imcets*:

Esk'wwát,	t'u7	wa7 t'u7	áma.
ʔəs-k <sup>w</sup> wát,	λu?	wáʔ=λu?	ʔáma
STAT-get.trodden	but	IPFV=EXCL	good

'He's been stepped on, but he's still good.' (vf, consultant's translation)

Once again, there is no detectable target state after the event has culminated (the worm wriggles away unscathed), yet the stative prefix is felicitous in this context. In other words, stative marking in *St'át'imcets* is sensitive to the result state rather than the target state, as also indicated by the English translation provided by the consultant in (19), which uses the perfect, the closest equivalent to a result state-denoting operator in English.

We obtained similar results with two other storyboards (not shown in this paper), involving (*e*)sk'ih / (ʔə)s-kih/ 'be picked up (of a baby)' and (*e*)ssék'w / (ʔə)s-sək<sup>w</sup>/ 'be broken (of something brittle)'. We conclude that there is a genuine (and surprising) difference between the representation of stative predicates built on bare intransitives in ʔayʔajuθəm and *St'át'imcets*: the former encode target states, while the latter encode result states.

### 3 Transitive statives

In this section, we examine the semantic interpretation of stative transitive predicates. As will be seen in the examples below, we find that the stative morpheme co-occurs with both the control and











a combination of pictures and verbal contexts to elicit these forms; the positive and negative data in (28) were elicited using the pictures in Figure 15, for instance, with the right-hand panel showing the crucial case, since the girl is no longer engaged in the action, but the target state holds.

(24) *ʔayʔajuθəm:*

*Context: Freddie left his door open for us to go in the house.*

a. *gəqétstex<sup>wəs</sup>* *tə ʔeməns.*  
*gəq-ít-st<i>x<sup>w</sup>-əs* *tə=ʔimin-s*  
 get.opened-STAT-CAUS<STAT>-3ERG DET=door-3POSS  
 ‘He has his door open.’ (sf)

b. \* *gəqétəs* *tə ʔeməns.*  
*gəq-í-t-əs* *tə=ʔimin-s*  
 get.opened-STAT-CTR-3ERG DET=door-3POSS  
 ‘He has his door open.’ (sf)

(25) *ʔayʔajuθəm:*

*Context: I got some fish and have frozen it.*

a. *tagítstex<sup>wč</sup>* *št<sup>θ</sup> ʔenx<sup>w</sup>.*  
*taʔg-ít-st<i>x<sup>w</sup>=č* *šə=t<sup>θ</sup>=ʔanx<sup>w</sup>*  
 freeze-STAT-CAUS<STAT>=1SG.SBJ DET=1SG.POSS=fish  
 ‘I have my fish frozen.’ (sf)

b. \* *tagítč* *t<sup>θ</sup> ʔenx<sup>w</sup>.*  
*taʔg-í-t=č* *t<sup>θ</sup>=ʔanx<sup>w</sup>*  
 freeze-STAT-CTR=1SG.SBJ 1SG.POSS=fish  
 ‘I have my fish frozen.’ (sf)

(26) *ʔayʔajuθəm:*

*Context: I took a fish out of the freezer and now it is thawed and ready to cook.*

a. *ʔex<sup>w</sup>étstex<sup>wč</sup>* *tə<sup>θ</sup> ʔenx<sup>w</sup>.*  
*ʔax<sup>w</sup>-ít-st<i>x<sup>w</sup>=č* *tə=t<sup>θ</sup>=ʔanx<sup>w</sup>*  
 melt-STAT-CAUS<STAT>=1SG.SBJ DET=1SG.POSS=fish  
 ‘I have my fish thawed.’ (sf)

b. ?\* *ʔex<sup>w</sup>átč* *tə<sup>θ</sup> ʔenx<sup>w</sup>.*  
*ʔax<sup>w</sup>-át=č* *tə=t<sup>θ</sup>=ʔanx<sup>w</sup>*  
 melt-CTR<STAT>=1SG.SBJ DET=1SG.SBJ=fish  
 ‘I have my fish thawed.’ (sf)

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have found that this is not obligatory (see e.g. 29 and 31), and that there does not seem to be any clear semantic difference between forms where the stative is also marked within the causative transitivizer and forms where it is not.





infelicitous in this context, and could only be used in a context where the state was being maintained by the agent, such as that illustrated in Figure 17 (see example 29).

(32) *ʔayʔajuθam:*

*Context: Daniel lifted up a window and it caught so he could go of it and it stayed open.*<sup>15</sup>

# qəh-**ít-sx**<sup>w</sup>-əs                      tə məmkeyustən.  
 qəh-**ít-sx**<sup>w</sup>-əs                      tə=məmkeyustən  
 get.lifted.up-**STAT-CAUS**-3ERG    DET=window  
 ‘He has the window lifted up.’ (sf)



**Figure 17:** (The window fell back down after Henry tried to open it and) Daniel lifted the window.



**Figure 18:** Daniel let go of the window and it remained where he had lifted it to.

<sup>15</sup> We also tried the form *qəhítstix<sup>w</sup>əs* in an almost identical context and the result was the same, as shown in (iv). As noted in footnote 13, we have been unable to find any clear semantic difference between stative causative forms where the stative marker also appears within the causative morpheme and forms where it does not.

(iv) *ʔayʔajuθam:*

*Context: Daniel lifted up a window and it caught, so he could walk away, and it stayed open.*

# qəh-**ít-st<i>x**<sup>w</sup>-əs.  
 get.lifted.up-**STAT-CAUS<STAT>**-3ERG  
 ‘He has it lifted up.’ (sf)

The absence of a target state reading for this form is puzzling from a compositional point of view, since *qəhét /qəhít/* ‘lifted up’ is grammatical as an intransitive target state stative (13); the addition of the causative transitivizer is therefore expected to result in a transitive target state reading. Further elicitation is still required to determine whether there are other intransitive target state statives that cannot be interpreted as transitive target state statives with the addition of the causative transitivizer. If not, *qəhétsx<sup>w</sup> /qəhítsx<sup>w</sup>/* may be treated as a lexicalized exception, but if other forms follow this same pattern, more work is needed to determine what is blocking the expected target state reading.

We turn now to a final puzzling fact concerning the combination of stative marking with transitivizers in *ʔayʔajuθəm*: the absence of stative non-control predicates. When discussing the stative control transitives, we suggested that the absence of target state readings was due to the fact that control transitives do not entail culmination. Predicates that take the non-control transitivizer do entail culmination (e.g. Watanabe 2003:205), and therefore entail that the target state is reached when built upon roots encoding a target state. Therefore, we might expect to find stative non-control transitives with target state interpretations parallel to those given for the causative statives in (24–28). This does not seem to be the case, however: non-control forms are ungrammatical with *qəʔi /qəʔi/* ‘still’, which is compatible with (temporary) state predicates, even if given a context that would fit a stative use. We tried forms ending in *-nex<sup>w</sup> /-n<i>x<sup>w</sup>/*, as reported by Watanabe (2003:442) for the exceptional (lexicalized) non-control stative *toχ<sup>w</sup>nex<sup>w</sup> /təχ<sup>w</sup>nix<sup>w</sup>/* ‘know’, as well as forms where stative is marked solely by raised pitch, as described by Mellesmoen and Andreotti (2017).<sup>16</sup> Neither version was accepted by our consultants, who instead in each case substituted a causative stative form.

(33) *ʔayʔajuθəm*:

*Context: Freddie opened his door open earlier when it was warm out. Now it’s quite cool but his door is still open.*

a. qəʔe ʔot      gəq̣étsx<sup>w</sup>əs                      tə ʔeməns.  
       qəʔi=ʔut      gəq̣-ít-sx<sup>w</sup>-as                      tə=ʔimin-s  
       still=EXCL    get.opened-STAT-CAUS-3ERG      DET=door-3POSS  
       ‘He still has his door open!’ (sf)

b. \*qəʔe gəq̣óx<sup>w</sup>əs / gəq̣néx<sup>w</sup>əs                      tə ʔeməns.  
       qəʔi gəq̣-óx<sup>w</sup>-as / gəq̣-n<í>x<sup>w</sup>-as                      tə=ʔimin-s  
       still get.opened-NCTR<STAT>-3ERG      DET=door-3POSS  
       ‘He still has his door open!’ (sf)

<sup>16</sup> Mellesmoen and Andreotti (2017) report that non-control transitive statives are formed productively in this manner. It is possible that our different findings are due to inter-speaker or dialect differences. Although we have worked with several other speakers, we have not had the opportunity to conduct the tests reported here with the two speakers whom Mellesmoen and Andreotti worked with. It is worth noting that the pattern of raised pitch observed by Mellesmoen and Andreotti is parallel to that found with control transitives and may represent an extension of that pattern to the non-control paradigm.

(34) *ʔayʔajʉθəm:*

*Context: I got some fish and froze it. I still haven't used it.*

a. ʔəjɛč ʔot                      taʔgítstéx<sup>w</sup>                      šit<sup>θ</sup> jɛnx<sup>w</sup>.  
 ʔəji=č=ʔut                      təg-ít-st<i>x<sup>w</sup>                      šə=t<sup>θ</sup>=janx<sup>w</sup>  
 still=1SG.SBJ=EXCL get.frozen-STAT-CAUS<STAT> DET=1SG.POSS=fish  
 'I still have my fish frozen.' (sf)

b. \*ʔəjɛč ʔot                      tagóx<sup>w</sup> / tunéx<sup>w</sup>                      šit<sup>θ</sup> jɛnx<sup>w</sup>.  
 ʔəji=č=ʔut                      təg-áx<sup>w</sup> / təw-n<i>x<sup>w</sup>                      šə=t<sup>θ</sup>=janx<sup>w</sup>  
 still=1SG.SBJ=EXCL get.frozen-NCTR<STAT> DET=1SG.POSS=fish  
 'I still have my fish frozen.' (sf)

(35) *ʔayʔajʉθəm:*

*Context: I have some butter melted in a pan and I'm keeping it warm so it stays melted. You aren't sure if I am still keeping the butter hot and ask me if I have melted butter that you could use on the vegetables.*

a. ʔɛ, ʔəjɛč                      jɛ:χ<sup>w</sup>étstex<sup>w</sup>                      tə pətə.  
 ʔi ʔəji=č                      jaχ<sup>w</sup>-ít-st<i>x<sup>w</sup>                      tə=pətə  
 yes still=1SG.SBJ get.melted-STAT-CAUS<STAT> DET=butter  
 'Yes, I still have butter melted.' (sf)

b. \*ʔɛ, ʔəjɛč                      jɛχ<sup>w</sup>óx<sup>w</sup> / jɛχ<sup>w</sup>néχ<sup>w</sup>                      tə pətə.  
 ʔi ʔəji=č                      jaχ<sup>w</sup>-áx<sup>w</sup> / jaχ<sup>w</sup>-n<i>x<sup>w</sup>                      tə=pətə  
 yes still=1SG.SBJ get.melted-NCTR<STAT> det=butter  
 'Yes, I still have butter melted.' (sf)

At this point, we do not have an explanation for the absence of stative marking with non-control transitives. More work is required to determine the aspectual properties of the non-control transitive predicates before we can properly determine whether stative versions of these are blocked semantically, morphologically, or by some other means.

### 3.2 Transitive statives in St'át'imcets

Turning to St'át'imcets, as already mentioned (see footnote 3) the directive (control) transitivizer is blocked with the stative prefix, for what appear to be purely morphological reasons. Interior Salish languages largely lack non-control transitivizers, so this leaves the causative as the only transitivizer which occurs productively with stative marking.<sup>17</sup>

The following examples (from Alexander et al. in prep.) all show stative causatives with a maintaining state reading:

<sup>17</sup> We set aside here transitive verbs suffixed with one of the two applicative transitivizers *-cit* /*-xit*/ (redirective) and *-min*(') /*-min*~*-min*/ (relational), which tolerate stative marking quite readily. We have yet to investigate the interpretation(s) of stative marking on applicative transitives.

(36) *St'át'imcets*:

T'ak áta7 saq'w ta haláw'a, esxímsas ta sts'úqwaz'a.  
 ʔak ʔátaʔ saq'w ta=haláw=a ʔəs-xím-s-as ta=scúq'áz=a  
 go.by to.there fly DET=eagle=EXIS STAT-clutch-CAUS-3ERG DET=fish=EXIS  
 'An eagle went flying by, clutching a fish.'

(37) *St'át'imcets*:

Sgwéls malh ti7!  
 s-ʕwəl-s=malh=tiʔ  
 STAT-lit-CAUS=ADHORT=that  
 'Keep it lit!'

(38) *St'át'imcets*:

Smúqwskan i s7icwlhálk'a n|op.  
 s-muq'w-s=kan ʔi=s-ʔix'w-l-alk=a n-|op  
 STAT-mound-CAUS=1SG.SBJ PL.DET=STAT-different-string=EXIS 1SG.POSS-rope  
 'I keep my different sized ropes in one pile.'

(39) *St'át'imcets*:

Stsáqwemaz' ta ts'eqw7íqwa scwápstal'i ta sts'úqwaz'a.  
 scáq'əm-áz ta=cəq'w'íq'w=a s-x'áp-s-talì ta=scúq'áz=a  
 saskatoon-wood DET=stretcher=EXIS STAT-spread-CAUS-NTS DET=fish=EXIS  
 'The stretcher that held the fish apart was made of saskatoon wood.'

(40) *St'át'imcets*:

Nilh aylh zam' múta7 sts'ílas ku sk'á7sas  
 nił ʔaył zam' mútaʔ s=číla=s k'wu=s-kaʔ-s-as  
 COP then well and NMLZ=like=3POSS D/C=STAT-get.stuck-CAUS-3ERG  
 láku7 ta smém'lhatsa.  
 lák'wuʔ ta=smém'lac=a  
 there DET=girl=EXIS  
 'So then he kind of kept the girl imprisoned.'

In contrast to the examples given in (36–40), we have found no cases where stative marking on a causative yields a target state reading, though this has to be checked more systematically (including with negative data). If our observations are accurate, they are consistent with what we have discovered about intransitive (bare root) statives: in *St'át'imcets*, stative marking *never* yields a target state reading, unlike in *ʔayʔajuθəm*.

We conclude with a final point regarding the interaction of stative and imperfective marking in the two languages under discussion. The imperfective auxiliary *wa7* /*waʔ*/ in *St'át'imcets* is fully compatible with transitive statives (and more generally with any stage-level state), as shown below (again, from Alexander et al. in prep.):

(41) *St'át'imcets*:

<b>Wa7</b>	sk'ihśás	ta skwékwa7sa.
<b>wa?</b>	s-kih-s-ás	ta=sk <sup>w</sup> é<k <sup>w</sup> >zaʔ-s=a
<b>IPFV</b>	STAT-get.picked.up-CAUS-3ERG	DET=child<DIM>-3POSS=EXIS

‘She is holding her little child on her lap.’

(42) *St'át'imcets*:

<b>Wá7lhkan</b>	steqs	ta nxulák7a.
<b>wa?</b> =lkan	s-təq-s	ta=n-x <sup>w</sup> ulákʔ=a
<b>IPFV</b> =1SG.SBJ	STAT-touch-CAUS	DET=1SG.POSS-finger=EXIS

‘I was holding my finger.’

This fits its analysis as a general-purpose imperfective marker, since imperfective morphemes cross-linguistically are proposed to be compatible with stative predicates (e.g. Comrie 1976).

In contrast, C<sub>1</sub> reduplication in ʔayʔajuθəm, though similarly glossed imperfective in key references such as Watanabe (2003) and Blake (2000), is not compatible with stative marking (Watanabe 2003:414), nor with stative predicates more generally. While this restriction is not expected for a general imperfective morpheme, it is characteristic of progressive morphemes cross-linguistically (e.g. Comrie 1976). For this reason, we have chosen to gloss C<sub>1</sub> reduplication as specifically marking progressive aspect rather than general imperfective, following a previous proposal for C<sub>1</sub> reduplication in Skw̥xwu7mesh (Bar-el 2005); see also footnote 11 above.

#### 4 Conclusion

In this paper, we have examined the different readings available for the stativizer in ʔayʔajuθəm and *St'át'imcets*. Looking at evidence from ʔayʔajuθəm, we have argued that the stative morpheme combines with bare roots to produce target state statives. The stative morpheme is only found in combination with roots that encode a target state, foregrounding the target state and backgrounding the event that leads to it (behaving in a similar manner to the stativizer found in German target state adjectival passives, as analyzed in Kratzer 2000). In contrast, the combination of the stative morpheme with bare roots in *St'át'imcets* leads to a result state reading, the irreversible state of an event having occurred: here, stative marking simply encodes that the event described by the predicate precedes the reference time (behaving like the stativizer in German result state adjectival passives, as analyzed by Kratzer). In ʔayʔajuθəm, the stativizer also combines with stems transitivized with the control transitivizer, in which case the resulting reading is not a target state reading, but rather one of maintaining state. Transitive stative forms can also be constructed with the causative transitivizer, in which case both target state and maintaining state readings are possible. In *St'át'imcets*, the stative morpheme combines only with the causative transitivizer, apparently always giving rise to maintaining state readings.

While we have provided a preliminary analysis of statives built on bare roots in this paper, we have not attempted a more complete analysis of the stative morpheme in combination with transitivizing morphology. We have, however, provided evidence for the different readings that arise when the stative morpheme occurs in combination with control and causative transitivizers: future elicitation and further analysis is needed to determine how these different readings arise, and to what extent the semantics we have proposed to account for the stativizer in combination with bare roots can be extended to capture the readings associated with transitive statives. In addition to this, future work should also examine the stative morpheme in combination with other



in/transitivizing morphemes, including active intransitive and middle suffixes. While these questions are beyond the scope of the current paper, we look forward to investigating them in future work.

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