# Maximal and non-minimal change in Salish event structure 

Sander Nederveen | University of British Columbia

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## Main Claim

Secwepemctsín aspectual (control) morphology restricts the range of the degree of change encoded by the predicate to being maximal or non-minimal

## 1. Background

## Secwepemctsín (Shuswap, ISO: shs);

- Interior Salish language;
- At most 166 fluent L1 speakers remaining (Ignace and Ignace, 2017; Gessner et al., 2022).


## Control and limited control in Secwepemctsín and across Salish

 Implicated in two areas of the grammar:(i) Agency

Limited control expresses that an subject of the verb did something (a) accidental or non-intentional, or (b) "accomplished it at the expense of special effort, time, or trouble" (Thompson 1985: 391).
Control expresses the converse set of meanings: the agent is acting deliberately, and is in "full control" (Kuipers, 1992).
(ii) Event structure

- Control and limited control have been associated with event structure and non-culminating accomplishments (NCAs; Bar-el et al. 2005; Bar-el 2005, see also Martin 2019)
- Secwepemctsín has four distinct control/limited control forms
- This is the largest set of control distinctions in Salish (shared with neighbouring Nłe?kepmxcín)

| Four-way morphological distinction |  |  |
| :--- | :---: | :---: |
|  | Transitive | Middle |
| Control | $-n-t-$ | $-e m-$ |
| Limited Control | $-n w e ́ n ̃-t-~$ | -nwélln̉- |

Table 1: Control paradigm in Secwepemctsín

## Middles in Salish

- An intransitive suffix -em, which has a variety of uses across Salish (see e.g., Davis 1996; Gerdts and Hukari 1998, 2006);
- Particular use: Intransitive but theme-oriented;
- Theme-oriented middles are formally intransitive, but they semantically entail a theme argument.
- Theme-oriented middles have "objects" but they are introduced by the oblique determiner te

Four-way distinction in event development:

|  | Transitive | Middle |
| :--- | :--- | :--- |
| Control | Implicate Culmination | Implicate partial Change of State |
| Limited Control | Entail Culmination | Entail partial Change of State |

Table 2: Four-Way Contrast of Control in Secwepemctsín

## Proposal

Degree-based analysis in which (limited) control morphology introduces a measure function that measures the degree of change undergone by object. This degree of change is oriented towards the maximal point (transitives) or the minimal point (middles) on the scale.

### 2.1. Transitive verbs marked for control

- Implicates culmination of the event
- If culmination fails to hold, implicature must be explicitly canceled


## Culmination is cancelable

(1) Context: Bruce has a very blunt knife for cutting off the fins of the sockeye

Bruce nîk-en-[t]-s re te~tétxmen-s kémell re te~tétxmen-s
Bruce get.cut-ctr-Tr-3ERG D/C PL~fin-3poss however d/C PL~fin-3poss

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ta7 k s-nik-s
neg IRR nmlz-get.cut-3poss
```

'Bruce cut their fins but the fins didn't get cut.'
(vf | GD | 02.07.2022)
(2) re Henry c-tsíq-en-[t]-s re tsípwen, ell w7ec ey d/c Henry loc-dig-ctr-tr-3ERG $\mathrm{D} / \mathrm{C}$ root.cellar and prog still $c$-tsíq- $m=e s \quad$ te $c$-tsípwen-s Loc-dig-mid $=3$ sbjv D/C Loc-root.cellar-3poss
'Henry dug a root cellar and is still making his root cellar.'
(sf $|\mathrm{MJ}| 02.23 .2022$ )
(3) Context: Hannah worked on making a new basket but she ran out of material. So the basket isn't done yet.

| Hannah | kúl-en-[t]-s | re | mimic, | k̇émell | ta7 | $k$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hannah | make-ctr-tr-3Erg | D/C | basket | however | NEG | D/C |
| $s$-wi7-s | ey |  |  |  |  |  |
| nMLz-fi | ish-3poss still |  |  |  |  |  |

'Hannah made a basket but she still hasn't finished.'
(vf \| DC; LC | 10.15.2021)
Failure to cancel the implicature when it does not hold is infelicitous
(4) Context: Hannah worked on making a new basket but she ran out of material. So the basket isn't done yet
\#Hannah ḱúl-en- $[t]-s \quad$ re mim̉c
Hannah make-ctr-Tr-3ERG D/c basket
'Hannah made a basket.'
(sf \| DC; LC | 10.15.2021)

### 2.2. Transitive verbs marked for limited control

- Entails culmination of the event


## Cancelation of culmination is infelicitous

(5) \# re Henry c-tsíq-enwén-[t]-s re tsípwen, kémell ta7 $k$ d/c Henry loc-dig-Lc-tr-3ERG D/C root.cellar however neg d/C $s$-wi7-s
nmLz-finish-3poss
Intended: 'Henry dug an root cellar but has not finished.'
Consultant's comment: 'You can't say ctsiqenwén's if he's not finished yet.'
(sf $|\mathrm{MJ}| 02.23 .2022$ )
(6) \# tlul̉qw-enwén-[t]-s re sunéc re Sander ell w7ec ey pull.feathers-lC-Tr-3erg D/c grouse D/C Sander and prog still
$s$-tlúlqw-em $=e s$
te sunéc
nmlz-pull.feathers-mid-3sbjv d/c grouse
Intended: 'Sander plucked feathers from a grouse and is now still pulling the feathers off.'
Consultant's comment: 'This is odd.'
(sf $|\mathrm{MJ}| 03.14 .2022$ )
(7) Context: Bruce has a very blunt knife for cutting off the fins of the sockeye
a. \#Bruce nỉk-enwéṅ-[t]-s re te~tétxmen-s k̉émell re Bruce get.cut-LC-TR-3ERG D/C PL~fin-3poss however D/C te~tétxmen-s ta7 $k$ s-nik-s PL~fin-3poss neg d/c nmlz-get.cut-3poss

Intended: ‘Bruce managed to cut their fins but the fins didn't get cut.'
(vf $\mid$ GD | 02.07.2022)

### 2.3. Middle verbs marked for control

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- No culmination inference
- Partial change-of-state implicature
- Change-of-state can be canceled
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Lack of culmination is asserted with ell 'and', instead of kémell 'but'

- Indicates that conjoined assertion does not contrast with the inference of the prejacent
(8) re Bruce q́7es s-cwik̉-em-s
te sqlelten-7úwíi, ell ta7 $k$
d/c Bruce long nmlz-dry-ctr.mid-3poss d/c salmon-real and neg d/C $s$-wi7-s ey
NmLz-finish-3poss still
'Bruce dried the sockeye for a long time and he hasn't finished yet'
(sf | GD | 12.27.2021)

It is possible to cancel a change-of-state, typically with k'émell 'however'

- Indicates that cancelation contrasts with the inference of the prejacent
(9) Henry mekwmékw re sek̉wmín̉-s. Henry nîk-em te te~tétxmen Henry dull D/c knife-3poss Henry cut-CTR.mid d/c PL~fin kémell ta7 $k$ s-ts-<nik>nik̉-s re te~tétxmen. however neg d/C nmLz-STAT < PL > cut-3poss D/C PL~fin
'Henry's knife is dull. Henry was cutting some fish fins but none of the fins got cut.'
(sf $\mid$ volunteered translation $|\mathrm{MJ}| 02.16 .2022$ )
(10) re Julia nîk-em te lekelét k̉émell ts-cets-7úy re lekelét d/c Julia cut-ctr.mid d/c bread but stat-scorch-emph d/c bread

$$
\begin{array}{ll}
\text { es } & t s-n<7>i k-s \\
\text { GDIR } & \text { STAT-cut }<\text { INCH }>-3 \text { POSS }
\end{array}
$$

'Julia cut the bread but it was too burnt to get cut.'
(sf $|M J| 06.15 .2022$ )
(11) Sander q̉wl-em te peták, ḱémell re c-k̉weltsenélten-s Sander roast-ctr.mid D/C potato however D/C Loc-stove-3poss q̉uwúp-ekwe. Ye-rí7 wel peták ts-xiw ey broken-Evid Dem-dist so potato stat-raw still
'Sander roasted some potatoes, but his stove was broken. That's why the potatoes are still raw.'
Consultant's comment: 'This makes sense, but not when you say it in English'
(sf | GD | 08.24.2022)

### 2.4. Middle verbs marked for limited control

- No culmination inference
- Entails a partial change-of-state

Lack of culmination is asserted with ell 'and', instead of kémell 'but' - Indicates that conjoined assertion does not contrast with the inference of the prejacent
(12) re Bruce q̉7es s-cwik̉-enwélln̉-s te sqlelten-7úw̉i, ell ta7 $k$ d/c Bruce long nmlz-dry-lc.mid-3poss d/c salmon-real ell neg d/C

$$
\begin{array}{ll}
s \text {-wi7-s } & \text { ey } \\
\text { NMLz-finish-3poss } & \text { still }
\end{array}
$$

'Bruce dried the sockeye for a long time and he hasn't finished yet' Consultant's comment: 'Makes sense'
(sf $|\mathrm{GD}| 12.13 .2021$ )
(13) re Sander tlul̉qw-enwélln̉ te témen-s re sunéc, ell D/C Sander pull.feathers-lc.mid D/C feather-3poss D/C grouse and

$$
\begin{array}{ll}
\text { w7ec ey tlúlqw-em-es } & \text { te sunéc } \\
\text { PROG still pull.feathers-mid-3sbjv D/c grouse }
\end{array}
$$

'Sander managed to pull the feathers of a grouse and is now still pulling the feathers off'
(sf | MJ | 03.09.2022)

## Cancelation of partial change-of-state is infelicitous

> \# Henry mekwmékw re sekwmíņ-s. Henry nik-enwélln่ te Henry dull D/C knife-3poss Henry cut-lc.mid d/C te~tétxmen ḱémell ta7 $k \quad s$-ts-<nik>nikk-s re PL~fin however NEG D/C nMLZ-STAT-<PL>cut-3poss D/C te $\sim$ tétxmen.
> PL~fin

Intended: 'Henry’s knife is dull. Henry was cutting some but none of the fins got cut.'
Consultant's comment: 'You are contradicting yourself here, because you are saying that some fins got cut'
(sf | MJ | 02.16.2022)
\# Sander q̉wl-enwéllń te peták, kémell re c-k̉weltsenélten-s Sander roast-lc.mid d/c potato however D/C loc-stove-3poss q̉uwúp-úke7. Ye-rí7 wel peták ts-xiw ey broken-evid dem-dist so potato stat-raw still

Intended: 'Sander roasted some potatoes, but his stove was broken. That's why the potatoes are still raw.'
Consultant's comment: 'No, they cannot all be raw still, because you say he was able to'
(sf | GD | 08.24.2022)
(16) \# re Henry tsiq-enwélln̉ re tsípwen, k̉émell sul-t ey d/c Henry dig-lc.mid D/c root.cellar however freeze-adjv still re llúqw-lecw. Ye-rí7 wel ta7 $k$ s-tsíq-enwén̉-[t]s re D/C earth-soil DEM-DIST so neg d/c.IRR nmlz-dig-LC-Tr-3ERG D/C tsípwen
root.cellar
Intended: 'Henry dug an root cellar but the soil was frozen. That's why he couldn't dig the root cellar.'
Consultant's comment: 'This doesn't sound right. You could say he tried to'
(sf | GD | 03.14.2022)

## Overview

|  | Culmination | Partial change-of-state |
| :--- | :---: | :---: |
| Implicated | control transitive | control middle |
| Entailed | limited control transitive | limited control middle |

Table 3: Secwepemctsín Control and Limited Control in Context

## 3. A note on the object DP

Krifka (1989, 1998): whether or not a predicate is telic largely depends on whether the theme DP is quantized or cumulative.

The determiner heading the DP does not affect the aspectual composition of the predicate

## Determiner selection in Secwepemctsin is syntactically driven (Gardiner 1993: 20)

- Core determiner re appears in argument positions where it is crossreferenced with verbal agreement, e.g., subject, direct object
- Oblique determiner te appears in positions not cross-referenced with verbal agreement, e.g., indirect object, agent of passive
- The objects of middle verbs - which test as atelic - may be quantized
(17) Sander 7îllen- $\varnothing$ te nek̉u7 tucw te sxúxsem Sander eat-ctr.mid d/c one only d/c soapberry
'Sander ate only one soapberry'
(vf $\mid$ GD $\mid 12.12 .2022$ )
- The objects of transitive verbs - which test as telic - may be non-quantized
(18) re sgwesgwes xwew-en-t-és re $s<p e q>p e ́ q$ D/C sunshine dry-ctr-tr-3ERG D/C berry<PL>
'The sun dried berries'
(vf | GD | 06.2022)


## 4. Analysis: maximal and non-minimal events

## Proposal

Degree-based analysis in which control morphology introduces a measure function that measures the degree of change undergone by the object. This degree of change is oriented towards the maximal point (transitives) or the minimal point (middles) on the scale.

## Measure function

(19) For any measure function $\mathbf{m}, \mathbf{m}_{\Delta}=$
$\lambda x \cdot \lambda e \cdot \lambda w \cdot \mathbf{m}_{\mathbf{m}(x)(\text { init }(e))(w)}^{\uparrow}(x)(f i n(e))(w)$
$\mathbf{m}_{\Delta}$ is the degree of difference between the degree of $x$ at the beginning and the degree measured by $\mathbf{m}$ at the end of $e$.
(adapted from Kennedy and Levin 2008: 18)

## Maximal and (non)-minimal points

- (in)transitivizing (limited) control morphology restricts the orientation of the degree to specific points on the scale of $\mathbf{m}_{\Delta}$.

$$
\begin{align*}
\max \left(\mathbf{S}_{\mathrm{m}_{\Delta}}\right) & =\iota d\left[d \in \mathbf{S}_{\mathrm{m}_{\Delta}} \wedge \forall d^{\prime} \in \mathrm{S}_{\mathrm{m}_{\Delta}}\left[d^{\prime} \leq d\right]\right]  \tag{20}\\
\min \left(\mathbf{S}_{\mathbf{m}_{\Delta}}\right) & =\iota d\left[d \in \mathrm{~S}_{\mathrm{m}_{\Delta}} \wedge \forall d^{\prime} \in \mathrm{S}_{\mathrm{m}_{\Delta}}\left[d \leq d^{\prime}\right]\right] \tag{21}
\end{align*}
$$

(adapted from Morzycki 2016: 128-129)

## Deriving culmination and partial change-of-state

## Culmination

Culmination of an event $e$ with theme $x$
$\mathbf{m}_{\Delta}(x)(e)=\max \left(\mathrm{S}_{\mathrm{m}_{\Delta}}\right)$
The degree to which $x$ changes as a result of participating in $e$ equals the maximal point on the scale of $\mathbf{m}_{\Delta}$

Culmination follows from the degree of change being oriented towards and equal to the maximal value on the scale of $\mathbf{m}_{\Delta}$

## Partial change-of-state

Partial change-of-state of theme $x$ in an event $e$
$\mathbf{m}_{\Delta}(x)(e)>\min \left(\mathrm{S}_{\mathrm{m}_{\Delta}}\right)$
The degree to which $x$ changes as a result of participating in $e$ exceeds the minimal point on the scale of $\mathrm{m}_{\Delta}$ ]]
Partial change-of-state follows from the degree of change being oriented towards and exceeding to the minimum value on the scale of $\mathbf{m}_{\Delta}$

## Deriving the entailment-implicature contrast

The evaluation world and inertia worlds
Inertia worlds $w^{\prime}$ are worlds whose history is identical to evaluation world $w$, but may branch off at the beginning of the event (Bar-el et al., 2005, cf. Dowty, 1979; Landman, 1992; Portner, 1998).

## - Implicating culmination \& partial change-of-state

Implicating culmination of an event $e$ with theme $x$
$\forall w^{\prime} . w^{\prime}$ is an inertia world w.r.t $w$ at the beginning of $e \rightarrow \mathbf{m}_{\Delta}(x)(e)\left(w^{\prime}\right)$ $=\max \left(\mathrm{S}_{\mathrm{m}_{\Delta}}\right)$

In all inertia worlds $w^{\prime}$, the degree to which $x$ changes as a result of participating in $e$ equals the maximal point on the scale of $\mathbf{m}_{\Delta}$

Implicating partial change-of-state of theme $x$ in an event $e$
$\forall w^{\prime} . w^{\prime}$ is an inertia world w.r.t $w$ at the beginning of $e \rightarrow \mathbf{m}_{\Delta}(x)(e)\left(w^{\prime}\right)$ $>\min \left(\mathrm{S}_{\mathrm{m}_{\Delta}}\right)$

In all inertia worlds $w^{\prime}$, the degree to which $x$ changes as a result of participating in $e$ exceeds the minimal point on the scale of $\mathbf{m}_{\Delta}$

## Entailing culmination \& partial change-of-state

Entailing culmination of an event $e$ with theme $x$
$\lambda w . \mathbf{m}_{\Delta}(x)(e)(w)=\max \left(\mathrm{S}_{\mathrm{m}_{\Delta}}\right)$
In the evaluation world $w$, the degree to which $x$ changes as a result of participating in $e$ equals the maximal point on the scale of $\mathbf{m}_{\Delta}$

Entailing partial change-of-state of theme $x$ in an event $e$
$\lambda w . \mathbf{m}_{\Delta}(x)(e)(w)>\min \left(\mathrm{S}_{\mathbf{m}_{\Delta}}\right)$
In the evaluation world $w$, the degree to which $x$ changes as a result of participating in $e$ exceeds the minimal point on the scale of $\mathbf{m}_{\Delta}$

## Control

In control verbs, culmination and partial change-of-state are implicated because $\mathbf{m}_{\Delta}$ returns a degree of change in all inertia worlds $w^{\prime}$, which may not include the evaluation world
a. Bruce nîk-en-[t]-s re te~tétxmen Bruce cut-ctr-tr-3erg d/c pl~fin culmination implicature
b. Bruce nik-em te te~tétxmen

Bruce cut-ctr.mid D/C PL~fin change-of-state implicature 'Bruce cut fish fins'

## Deriving control forms

$\lambda \mathrm{P}_{\langle e, v t\rangle} \cdot \lambda x$. $\lambda e . \lambda w . \forall w^{\prime}\left[P(x)(e)(w) \wedge w^{\prime}\right.$ is an inertia world w.r.t $w$ at the beginning of $e \rightarrow\left\{\mathbf{m}_{\Delta}(x)(e)\left(w^{\prime}\right)\left\{=\max \left(\mathrm{S}_{\mathrm{m}_{\Delta}}\right)\right\} /\left\{>\min \left(\mathrm{S}_{\mathrm{m}_{\Delta}}\right)\right\}\right]$

## Culmination implicature (22a)

$e$ is a cutting event of fins $\wedge$ in all inertia worlds $w^{\prime}$ w.r.t. $w$ at the beginning of $e$, then the degree of change to the fins as a result of participating in the cutting event is maximal.

## Partial change-of-state implicature (22b):

$e$ is a cutting event of fins $\wedge$ in all inertia worlds $w^{\prime}$ w.r.t. $w$ at the beginning of $e$, then the degree of change to the fins as a result of participating in the cutting event exceeds the minimum point on its scale.

## Limited control

In limited control verbs, culmination and partial change-of-state are entailed because $\mathbf{m}_{\Delta}$ returns a degree of change in the evaluation world $w$
a. Bruce nîk-enwén-[t]-s re te~tétxmen-s Bruce cut-LC-TR-3ERG D/C PL~fin culmination entailment
b. Bruce nîk-enwélln̉ te te~tétxmen Bruce cut-lc.mid D/C pl~fin change-of-state entailment 'Bruce managed to cut fish fins'

## Deriving limited control forms

$\lambda \mathbf{P}_{\langle e, v t\rangle} \cdot \lambda x \cdot \lambda e \cdot \lambda w\left[P(x)(e)(w) \wedge \mathbf{m}_{\Delta}(x)(e)(w)\left\{=\max \left(\mathrm{S}_{\mathrm{m}_{\Delta}}\right)\right\} /\right.$
$\left.\left\{>\min \left(\mathrm{S}_{\mathrm{m}_{\Delta}}\right)\right\}\right]$

## Culmination entailment (23a):

$e$ is a cutting event of fins $\wedge$ in the evaluation world $w$, the degree of change to the fins as a result of participating in the cutting event is maximal.

## Partial change-of-state implicature (23b):

$e$ is a cutting event of fins $\wedge$ in the evaluation world $w$, the degree of change to the fins as a result of participating in the cutting event exceeds the minimum point on its scale.

## 5. Conclusion

Four-way distinction in Secwepemctsín event development:

|  | Transitive | Middle |
| :--- | :--- | :--- |
| Control | Implicate Culmination | Implicate partial Change of State <br> Limited Control <br> Entail Culmination |
| Entail partial Change of State |  |  |

Table 4: Four-Way Contrast of Control in Secwepemctsín

## Reflection

While different analyses would be capable of accounting for culmination vs. non-culmination, the parallelism reflected between transitive and middle verbs is reflected in the analysis
It accounts for the the restrictions on the degree of change of the predicate, i.e., culmination and partial change-of-state

## Future work

- Extend to Degree Achievements: this analysis uses DA semantics, but the degree variable does not come from the root.
- The nature of the verb root: the semantics of the verb root is unclear: in other Salish languages they are telic unaccusatives (Davis, 1996, 2022).
- Division of labour between control and (in)transitivity, as the morphemes are largely decomposable.


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## Abbreviations and glossing conventions

Abbreviations: 'vf' stands for volunteered form by consultant; 'sf' stands for supplied form by the elicitor.
Glossing conventions: $\quad$ aDJV $=$ adjectivizer,$\quad \operatorname{CTR}=$ control, $\quad \mathrm{D} / \mathrm{C}=$ determiner/complementizer, $\quad$ DEM $=$ demonstrative, $\quad$ dIST $=$ distal, $\quad$ еMPH $=$ emphatic, $\quad$ ERG $=$ ergative,$\quad$ EVID $=$ evidential, GDIR $=$ goal-directed, $\quad$ INCH $=$ inchoative, $\quad$ IRR $=$ irrealis, $\quad$ LC $=$ limited control, $\quad$ LC.MID $=$ limited control intransitive, LOC $=$ locative, MID $=$ middle, NEG $=$ negative, nMLz $=$ nominalizer, $\mathrm{PL}=$ plural, POSS $=$ possessive, PROG $=$ progressive, sBJV $=$ subjunctive, stat $=$ stativizer, $\mathrm{TR}=$ transitive.

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International Workshop on Maximalization Strategies in the Event Domain
University of Debrecen
Hungary
sander.nederveen@ubc.ca

