Adverbial Phrases and Aspectual Expressions in Korean: Co-occurrence and Semantic Constraints

Wako, Masakazu † and Kaoru Horie t

Graduate School of International Cultural Studies, Tohoku University

†6m36wako@intcul.tohoku.ac.jp

¹ khorie@intcul.tohoku.ac.jp

1. Introduction

This study investigates how aspectual interpretations are constrained by the co-occurring adverbial phrases in Korean. Yazawa(1985) has pointed out that, in Japanese, aspectual interpretations of the Verb + teiru form (e.g. siteiru), ranging over "Progressive", "resultative", "Perfect" and "Iterative/Habitual", are delimited by the co-occurring adverbial phrases. This study investigates whether the constraints imposed on by adverbial phrases (or adverbials) are applicable to Korean aspectual forms corresponding to the Japanese siteiru, i.e. hako issta, hav issta and hayssta.

2. Delimitation of the aspectual interpretations of siteiru by adverbials

Japanese aspectual form siteiru encodes the Progressive, Resultative-Stative, Perfect and Iterrative/Habitual meanings (Yoshikawa1976, Kudo 1995). While previous studies have paid attention to the interaction between lexical aspect of a verb and aspectual meanings indicated by siteiru, Yazawa (1985) has pointed out that some adverbials delimit the meanings of siteiru.

Yazawa classified adverbials into five categories, i.e. Stative Adverbials, Manner Adverbials, Process Adverbials, Occurrence Adverbias, and Frequency Adverbials. Stative Adverbials modify the resultant states of an event. Manner Adverbials modify the manner of an action. Process Adverbials modify the process of a progressive change of state. Occurrence Adverbials and Frequency Adverbials respectively modify the manner of an occurring event and the frequency of events repeated over some period of time.

Based on this classification, Yazawa has analyzed how adverbials delimit the availability of aspectual interpretations of siteiru, as in (la-lc):

- (1) a. Process Adverbials delimit the Resultative-Stative interpretation of siteiru.
 - b. Occurrence Adverbials delimit the Progressive and Resultative-Stative interpretations.
 - c. Frequency Adverbials delimit the Progressive, Resultative-Stative and Perfect interpretations.

- (2) a. A sya-no kabu-wa neagarisi-te iru. stock-TOP rise-ASP company-GEN 'The stock price of company A is rising. (Progressive) / The stock price of company A keeps is in the state of having risen. (Resultative) / The stock price of company A has (continuously) risen (and it still does). (Iterrative/Habitual)'
 - b. Masako-ga kao-ni beni-wo usuku nut-te iru -NOM face-on rouge-ACC thinly spread-ASP 'Masako is spreading rouge on her cheek thinly. (Progressive) / Masako has her cheek rouged thinly. (Resultative) / Masako has (recently) rouged her cheek thinly. (and continues to do so). (Iterrative/Habitual)'

In (2a), where no adverbial occurs, siteiru can be interpreted as encoding the Progressive, Resultative-Stative, Perfect or Iterrative/Habitual aspect without any constraint. A Stative Adverbial usuku ('thinly') occurs in (2b), but it does not restrict the meaning of siteiru, although the Resultant-State of the event denoted by the VP beni-wo muru ('spread rouge') is highlighted by usuku and the Resultative-Stative interpretation seems most suitable.

- (3) a. A sya-no kabu-wa kyuugekini neagarisi-teiru. company-GEN stock-TOP rapidly rise-ASP 'The stock price of company A is rising rapidly. (Progressive) / The stock price of company A has experienced a rapid rise. (Perfect) / The stock price of company A has (always) rapidly risen (and it still does).(Iterrative/Habitual)'
 - b. Masako-ga kao-ni beni-wo -NOM face-on rouge-ACC patapatato usuku nut-teiru. in a flirting manner thinly put-ASP 'Masako is spreading rouge on her cheek thinly with

her rouge brush flirting. (Progressive) / Masako has spread rouge on her cheek thinly with her rouge brush flirting. (Perfect) / Masako has continued to spread rouge on her cheek thinly with her rouge brush flirting (and she still does). (Iterrative/Habitual)'

In (3a), a Process Adverbial kvuugekini ('rapidly)' delimits

and preempts the Resultative-Stative interpretation. In (3b), the Resultative-Stative interpretation, which can be highlighted by a Stative Adverbial *usuku* ('thinly') as in (2b), is preempted by a Manner Adverbial *pataptatato* (a manner of flapping or flirting something)'.

(3) c. A sya-no kabu-wa totuzen kyuugekini
company-GEN stock-TOP suddenly rapidly
neagarisi-teiru.
rise-ASP
(Perfect or Iterative/Habitual Interpretations: cf. 3a)

d. *Itumo* A *sya-no kabu-wa totuzen*always company-GEN stock-TOP suddenly *kyuugekini neagarisi-teiru*.
rapidly rise-ASP
(Iterative/Habitual Interpretation only)

In (3c), an Occurrence Adverbial totuzen ('suddenly') preempts the Progressive and Resultative-Stative interpretations. Accordingly, siteiru in (3c) can only be interpreted as encoding Perfect or Iterrative/Habitual. In (3d), a Frequency Adverbial itumo ('always') only allows for the Iterrative/Habitual interpretation despite the presence of other co-occurring adverbials.

3. Tense-aspect expressions in Korean

Korean has two periphrastic aspectual forms which correspond to *siteiru* in Japanese, i.e. "Progressive" *hako issta* and "Resultative-Stative" *hay issta* (Hamanoue 1991, 1992):

(4) a. Cenghwa-ka ttwi-ko iss-ta.
-NOM run-ASP-DECL
'Cenghwa is running now.'

b Cenghwa-nun os-ul ip-ko iss-ta.

-TOP cloth-ACC wear-ASP-DECL

'Cenghwa is putting on a cloth / has a cloth on.'

c Cenghwa-nun hakkyo-ey ka-a iss-ta.
-NOM school-LOC go-ASP-DECL
'Cenghwa has gone to school (and is still there).'

Hako issta (V-stem + Conjunctive suffix -ko + issta 'exist/be') primarily expresses an on-going action as in (4a). With verbs of wearing (e.g. ipta 'wear', moca-lul ssuta 'wear a hat') and reflexive action (e.g. phyoceng-ul cista 'make some expression on one's face'), hako issta can also express Resultative-Stative, as in (4b). Hay issta form (V-stem + Conjunctive suffix -e/-a/-ye + issta 'exist/be'), which expresses Resultative-Stative, as in (4c), can only co-occur with intransitive verbs encoding a change-of- state undergone by the subject NP.

(5) a. na-nun ecey kongpwuha-yess-ta.

I-TOP yesterday study-TNS-DECL(Past)

'I studied yesterday.'

b. swul masi-ess-ta.
 alcohol drink-ESS-DECL
 'He has drunk (and stinks of alcohol).' (Ogoshi 1995)

c. ce salam kwaynchanh-un os ip-ess-ney.
that person good-ADN cloth wear-ESS-EXCL
'S/he dresses fine!' (Ogoshi 1995)

Hayssta (V-stem + past tense suffix '-ess-/-ass-/-yess-' + ending suffix) primarily encodes Past Tense as in (5a). But as shown in (5b) and (5c), it can also indicate Perfect (Hamanoue 1992, Sohn 1999) and describe a situation existing at the utterance time as a result of the action denoted by the verb (Ogoshi 1995, Sohn 1999). This will be further discussed in Section 4.2.

In the remainder of this paper, we investigate how adverbials delimit the interpretations of tense-aspect forms in Korean.

4. Delimitation of the aspectual interpretations of tense-aspect forms by adverbials in Korean

4.1 Interaction of Stative, Manner and Process Adverbials and the aspectual interpretations of *hako issta/hay issta*With verbs of wearing and reflexive action, i.e. transitive verbs encoding a durative action and its resultant state, *hako issta* can indicate Progressive or Resultative-Stative, as in (6a).

(6) a. Cenghwa-ka lwucwu-lul palu-ko iss-ta. -NOM rouge-ACC apply-ASP-DECL 'Cenghwa is putting lipstick on her lip/Cenghwa has her lip rouged.' (Progressive/Resultative-State)

b. Cenghwa-ka yeyppukey lwucwu-lul
-NOM beautifully rouge-ACC
palu-ko iss-ta.
apply-ASP-DECL
Cenghya is putting lipstick on her lin n

'Cenghwa is putting lipstick on her lip neatly. / Cenghwa has her lip rouged neatly.'

c. Cenghwa-ka yelsimhi yeyppukey lwucwu-lul
-NOM attentively beautifully rouge-ACC
palu-ko iss-ta.
apply-ASP-DECL
'Cenghwa is attentively putting lipstick on her lip neatly.
/ Cenghwa attentively has her lip rouged neatly.'

In (6b), wherein a Stative adverbial yeyppukey ('beautifully') occurs, hoko issta also can be interpreted as encoding Progressive or Resultative-stative, although the latter interpretation is more preferred. On the other hand, in (6c), wherein a Manner adverbial yelsimhi ('attentively') occurs as well, only the Progressive interpretation of hako issta is available. This clearly shows that Manner Adverbials can preempt the Resultative-Stative interpretation of hako issta.

With intransitive verbs encoding progressive change or the subject NP's resultant state after change, *hako issta* encodes Progressive and *hay issta* expresses Resultative-Stative, as in (7a).

- (7) a. A sa-uy cwuka-ka {ollaka-ko iss-ta/ollaka-a iss-ta}. company-GEN stock price-NOM rise-ASP-DECL 'The stock price of company A is rising. (Progressive) / The stock price of company A is in the state of having risen. (Resultative)'
 - b. A sa-uy cwuka-ka ppalu-n sokto-lo company-GEN stock price-NOM rapidly {ollaka-ko iss-ta/*ollaka-a iss-ta}. rise-ASP-DECL

'The stock price of A company is rising rapidly.'

(Progressive)

In (7b), a Process Adverbial *ppalu-n solao-lo* 'rapidly' can co-occur with only *hako issta*; and *hay issta* is not appropriate.

4.2 Interpretation of *hayssta* co-occurs with Stative Adverbials and Manner/Process Adverbials

The basic meaning of hayssta is Past Tense but it can also describe a state resulting from the action/change existing at the utterance time, as in (8a) and (9a). For example, in (8a), hayssta can locate the action of Cenghwa's action of putting lipstick on her lip at some point prior to the utterance time on the time axis. The speaker can utter (8a) to describe the resultant current situation wherein Cenghwa is present with her lipstick on.

- (8) a. Cenghwa-ka lwucwu-lul palu-ass-ta.
 - -NOM rouge-ACC apply-PST/ASP-DECL 'Cenghwa put lipstick on her lip. / Cenghwa has put lipstick. on her lip.' (SimplePast/Perfect)
 - b. Cenghwa-ka yelsimhi yeyppukey lwucwu-lul
 -NOM attentively beautifully rouge-ACC palu-ass-ta.

apply-PST/ASP-DECL

'Cenghwa attentively put lipstick on her lip. / Cenghwa has attentively put lipstick on her lip.'

(Simple Past/Perfect)

- (9) a. A sa-uy cwuka-ka ollaka-ass-ta.

 company-GEN stock price rise-PST/ASP-DECL

 'The stock price of company A rose. / The stock price of company A has risen.' (Simple past/Perfect)
 - b. A sa-uy cwuka-ka ppalu-n sokto-lo company-GEN stock price rapidly ollaka-ass-ta.
 rise-TNS/ASP-DECL

'The stock price of company A rapidly rose. / The stock price of company A has rapidly risen.' (Simple

past/Perfect)

As seen in Section 4.1, Manner Adverbials preempt the Resultative-Stative interpretations of *hako issta* and Process Adverbial can not co-occur with the Resultative-Stative form *hay issta*. In contrast, when co-occurring with Manner Adverbial or Process Adverbial, *httpssta* can express the subject's resultant state deriving from the preceding action/change and existing at the utterance time, as in (8b) and (9b).

But in the cases of (8b) and (9b), it is considered that *hayssta* expresses not only the resultant state but also the preceding action/change. In (8b) the speaker infers Cenghwa's having put on her lipstick attentively from the appearance of Cenghwa's lips which are colored more beautifully than usual. In (9b) the speaker refers to the rapid rise of the stock price of company A with respect to the stock price given at the utterance time. This suggests that *hayssta* forms in (8b) and (9b) attest the Perfect interpretation.

Previous studies have noted that *hayssta* has the Resultative-Stative use (Sohn 1999, Ogoshi 1995). Indeed (8a) can describe the same situation as (6a), i.e. the situation encoded by the *hako issta* in (6a). Similarly, (9a) can describe the situation expressible also by the *hay issta* in (7a). And when a Stative adverbial occurs, as in (10), the Resultative-Stative interpretation seems to be highlighted:

(10) Cenghwa-ka yeyppukey lwucwu-lul
-NOM beautifully rouge-ACC
palu-ass-ta.
apply-TNS/ASP-DECL
'Cenghwa has put lipstick on her lip beautifully.'

But as mentioned in relation to (8b) and (9b), when a Manner or Process Adverbial occurs and emphasizes the process of action or change, *hayssta* can be interpreted as encoding Perfect rather than Resultative-Stative. This observation leads us to consider that the aspectual *hayssta* form encodes Perfect as its basic meaning, and that only when the Resultative-Stative interpretation is highlighted contextually or by a Stative Adverbial can it receive the Resultative-Stative interpretation.

4.3 Occurrence Adverbials and Frequency Adverbials

In the present subsection we will investigate how Occurrence/Frequency Adverbials affect the aspectual interpretations of Korean tense-aspect forms.

As seen in (11) and (12), both Occurrence Adverbials and Frequency Adverbials can co-occur with *hako issta*, *hay issta* and *hayssta* without any other syntactic condition.

(11) A sa-uy cwuka-ka kapcaki company-GEN stock price-NOM suddenly

{ollaka-ko issta / ollaka-a iss-ta / ollaka-ass-ta.} rise-ASP/TNS-DECL

'The stock price of company A has started to rise suddenly and is still rising. / The stock price of company A has risen suddenly and it still stays high. / The stock price of company A has risen suddenly.'

(Progressive/Resultative-Stative/Perfect)

(12) hangsang A sa-uy cwuka-nun always company-GEN stock price-NOM {ollaka-ko issta / ollaka-a iss-ta / ollaka-ass-ta.} rise-ASP/TNS-DECL

'The stock price of company A is always rising. / The stock price of company A always stays high. / The stock price of company A always rose.'

When an Occurrence Adverbial occurs, e.g. *kapcaki* as in (11), the aspectual meanings of *hako issta*, *hay issta* and *hayssta* do not change; they indicate Progressive, Resultative-Stative and Perfect respectively. When a Frequency Adverbial occurs, e.g. *hangsang* as in (12), each sentence describes a situation occurring habitually, although the process of action/change is highlighted in the *hako issta* sentence, and the state resulting from the past action/change is foregrounded in the *hay issta* sentence.

5. Dicsussion

Manner/Process Adverbials modify the process of an action/change, while Stative Adverbials modify the subject's state resulting from the preceding action/change encoded by the verb. These adverbials are thus intimately concerned with the semantics of the verb phrase. As observed in section 4.1, Manner Adverbials preempt the Resultative-Stative interpretation of *hako issta* and Process Adverbials can not co-occur with the Resultative-Stative form *hay issta*. This observation leads us to consider that Manner/Process Adverbials take precedence over Stative Adverbials from the viewpoint of aspect.

This also points to the strong interaction between the semantics of a verb phrase and the availability of Perfect and Resultative-Stative interpretations. That is, the Perfect interpretation of *hayssta* is less subject to cancellation than the Resultative-Stative interpretation, as shown in 4.2. When Manner/Progressive/Stative Adverbials co-occur with *hayssta*, the Perfect interpretation is not preempted, although Stative Adverbials make it less distinct from the Resultative-Stative interpretation. This peculiarity of Perfect accords with the observation made in previous studies that Perfect is distinguishable from other aspectual meanings in its affinity to the deictic nature of Tense (e.g. Kudo 1995: 98-105).

Finally, Occurrence adverbials and Frequency adverbials, discussed in 4.3, do not delimit the availability of aspectual forms unlike other adverbials.

6. Conclusion

This study explored how adverbials affect the aspectual interpretations of tense-aspect forms in Korean, inspired by Yazawa's (1985) study in Japanese. It finds that the Yazawa's basic insight is at least partially applicable to Korean, whose tense-aspect system is more complex than that in Japanese.

Abbreviatories

ACC: Accusative, ADN: Adnominal, ASP: Aspect, DECL: Declarative, EXCL: Exclamation, GEN: Genitive, NOM: Nominative, TNS: Tense, TOP: Topic

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