

Special Feature

15th century Korean Grammar from a Viewpoint of Linguistic Typology and Historical Grammar

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Introduction

The 15th century has a special significance for the historical study of the Korean language because Hunmin jeongeum was invented in this period, by which one became able to write the Korean language very precisely. In order to study Korean before the 15th century, one must depend on the Sino-Korean orthography, much coarser than *hangeul*, and to make things worse, with limited data. In contrast, from the 15th century, there is abundant data, and the orthography is fine-grained, so one can come closer to the linguistic facts. Given this situation, it is natural that the historical study of Korean began from the 15th century. Therefore, after the language of the 15th century had been studied sufficiently, on this basis, that of the period before the 15th century was studied retrospectively, while that of the later period was studied prospectively. In other words, the 15th century has been the bridgehead for the historical study of the Korean language.

15th century Korean has been studied more extensively than other periods, due to the more precise and homogeneous orthography, but many aspects remain to be investigated thoroughly. So far, the grammatical study of 15th century Korean has been done mainly from an internal perspective, which means that researchers have been reading textual material from this period meticulously and describing the observed grammatical patterns.¹ As a matter of fact, such an approach has contributed much to describing the linguistic facts objectively and faithfully, but if it has limitations, one needs to attempt other approaches.

A major source which can provide an external perspective is linguistic typology. Linguistic typology has been applied inductively to many languages of the world, and has led to the discovery of linguistic universals and patterns of variation. In virtue of such efforts, the grammatical organizations of many languages, various means of expressing grammatical categories, and how geographically adjacent languages show similar patterns have been revealed. In particular, tense-aspect-modality and transitivity have been studied very precisely, so these studies provide the framework on the basis of which one can look into 15th century Korean.

In addition, the diachronic perspective is also very important. Many linguistic materials before the 15th century have been discovered in the last 30 years. The amount of *eumdokgugyeol* 音讀口訣 material from the late Goryeo period equals that of *hangeul* material, and in the *sedokgugyeol* 釋讀口訣 material, grammatical elements are written very precisely, so the grammatical study of the Goryeo period Korean has produced remarkable results. In the past, there had been a large gap between the grammar of the Silla language using the *hyangga* material and that of 15th century Korean, but in virtue of *gugyeol* materials, this gap has been bridged. The grammatical study of *gugyeol* material, in turn, has shed light on the decipherment of *hyangga*. These studies have many implications for the grammatical study of 15th century Korean.

In this paper, I will take a new look at the grammar of 15th century Korean on the basis of linguistic typology and the Sino-Korean materials of the Silla and Goryeo periods. I hope that my approach from the external perspective will enable more insightful analysis than previous ones.

Tense-aspect System

The Problem

The tense-aspect system of 15th century Korean has some peculiarities. In most languages which have a tense distinction between past and non-past, if they encode one of them as a zero marker, it is non-past that is encoded as a zero, and past is usually encoded as an overt marker. In contrast to this tendency, in 15th century Korean, non-past is expressed as an overt marker, and it is past that is expressed as a zero marker. For instance, the non-past form of the verb *ga-* (to mean “go”) is *ga-nl-da* ‘go-PRS-DEC’ or *ga-nl-nila* ‘go-PRS-DEC’, whereas its past tense form is *ga-ø-da* ‘go-AOR-DEC’ or *ga-ø-nila* ‘go-AOR-DEC.’

In fact, there were two past tense forms. In addition to *ga-ø-da* and *ga-ø-nila*, there are two additional past tense forms of the verb *ga-*: *ga-deo-la* ‘go-IMPERF-DEC’ and *ga-deo-nila* ‘go-IMPERF-DEC.’ In other words, *-deo-* as well as \emptyset marked past tense.²

1. This practice in grammatical study is quite different from that in phonological study. In phonological studies of 15th century Korean, foreign materials such as *Joseongwanbyeokeo* and the external perspectives have played important roles.

2. The statements in this and the previous paragraphs are about verbs. Adjectives show a different pattern, in which \emptyset encodes present and *-deo-* past.

In addition, there were *-geo-* and *-eo is-* which are related to past tense although they are less frequent than \emptyset and *-deo-*. One of the two usages of *-eo is-*, through the intermediate stages of *-es-* and *-eos-*, became the prefinal ending *-eoss-* in modern Korean. Some instances of *-eo is-*, *-es-*, and *-eos-* in the 15th century correspond to the modern *-eoss-*, and others correspond to the modern *-eo iss-*.

On the basis of these facts, the following questions can be raised. First, how did the unusual system arise in which past is encoded as \emptyset ? Second, how were the grammatical elements which express past-related meanings differentiated? I will discuss the first question in the next section, and examine the second question from a typological point of view in this section.

Typologists have discovered the following recurrent patterns as they investigated tense-aspect systems in many languages:

- ① The binary system of past and non-past as well as the tertiary system of past, present, and future is equally frequent.
- ② If a language has a sufficiently grammaticalized aspect system, it is usually a binary system of perfective and imperfective.³
- ③ The distinction between perfective and imperfective usually appears in the past tense, and is infrequent in the present tense.
- ④ Among aspectual values which are not as grammaticalized as perfective and imperfective, perfect, progressive, or resultative aspects are frequently attested.
- ⑤ A language can have both the more grammaticalized aspectual distinction of perfective vs. imperfective and less grammaticalized aspectual values.

The Opposition between \emptyset and -deo-

The question of the opposition between \emptyset and *-deo-* can be answered in large part by ②. That is, \emptyset encodes past perfective, while *-deo-* encodes past imperfective. This position was presented by Choi (2015) and Ito (2009).

3. These two aspectual values are also called “aorist” and “imperfect” respectively.

It is helpful to look at the adnominal inflections of verbs in modern Korean, in order to have a sense of the opposition between \emptyset and *-deo-*. The tense-aspect system has experienced substantial change from the 15th century to modern times, and the driving force of this change was the grammaticalization of *-eoss-*. This element has taken the status of the main past tense marker, and the tense-aspect system was reorganized at a large scale due to this change. However, except for Gyeongsang provincial dialects, *-eoss-* did not intrude into adnominal inflections, so the adnominal inflections are maintaining their state from the 15th century. What is the difference between *ilg- \emptyset -eun* ‘read-AOR-ADN’ and *ilg-deo-n* ‘read-IMPERF-ADN’? Both express that the action of reading was performed at a point in the past, but the former gives the impression that this action was completed, whereas the latter suggests that the action was ongoing in the past, not completed. The difference between *nilg- \emptyset -da* and *nilg-deo-la* or *nilg- \emptyset -eunila* and *nilg-deo-nila* is essentially the same as this.

To digress, in inflections other than adnominal, as *-eoss-* was established as a main past tense marker, the former past tense markers \emptyset and *-deo-* underwent substantial changes. In verbal inflection, for encoding past tense, \emptyset came to be no longer used except for adnominal forms, and *-deo-* survived by acquiring mirative and evidential meanings although the frequency was lowered due to these additional meanings.

Prefinal Ending -geo-

-Geo- appears frequently in the 15th century materials although not as frequent as \emptyset or *-deo-*. As a matter of fact, *-geo-* in the 15th century has two usages, and this is the result of a merging of two distinct elements from the previous period. One was written as “*ᄃ*” (*gyeo*) in the Sino-Korean orthography, while the other was written as “*ᄂ*” (*geo*). The former encoded meaning irrelevant to tense-aspect (probably modality or mood), whereas the latter had meaning related to tense-aspect.

What is the precise nature of this latter element? In simple terms, it can be considered a perfect aspect marker. Perfect aspect expresses that a past event is relevant to the present. The construction “*have* + past participle” in English is a representative perfect marker.

A past event can have present relevance in many ways:

- ① Its temporal position is near the present, so its effects remain in the present. (recent past, near past, or immediate past)
- ② It started at a point in the past, but has been continuing up to the present. (durative)
- ③ The subject referent has the experience of the event up to the present. (experiential)
- ④ The event occurred in the past, and was completed in the past, but the resultant state is obtained in the present. (resultative)

The “*have* + past participle” construction in English has all of these four senses. *-Geo-* appears to have fewer senses. In sentence-final inflections, the recent past meaning is salient. *O-na-da* ‘come-PERF-DEC’ (*-na-* is an allomorph of *-geo-*) expresses that the event of coming occurred immediately before the speech time. *Bam-i gip-geo-da* ‘night-NOM deep-PERF-DEC’ expresses that it has become a deep night a moment ago. *-Geo-* cannot refer to an event in the remote past. In adnominal inflections, usages other than recent past are prevalent. *Dina-geo-n* ‘pass-PERF-ADN’ is translated into *jina-o-n* ‘pass-AOR-ADN’ of modern Korean. The reason that the author used *-geo-* instead of \emptyset , is that the event of time passing is continuing up to now, so this usage can be considered an instance of durative.

-Eo is- Construction

-Eo is- has variants: *-es-* and *-eos-*. Some scholars (such as Seunguk Lee, Dongwan Han, and Eonhak Chung) insist that different forms must have different meanings, but the position that these variants had essentially the same meaning in the 15th century is more firmly established because these appear interchangeably in the same contexts (Choi 2015; Park 2018). When an element is grammaticalized, erosion of form and semantic bleaching occur in parallel, but their pace is not always synchronized. One can proceed significantly, and the other can fall behind. In a similar vein, when a person gets old, many changes such as hypomnesia, hair whitening, hypokinesia, and loss of skin elasticity occur at once, but some of them can proceed in advance of others.

-Eo is- in the 15th century is the ancestor of the modern *-eo iss-*, but the former had a much broader meaning than the latter—i.e., the former also had the function of *-go iss-* in modern Korean. *-Go is-* seldom appears in the 15th

century, and had only the resultative use, combined with transitive verbs which refer to actions of wearing or putting on. Intransitive resultative (expressed by *-eo iss-* in modern Korean), progressive and transitive resultative (expressed by *-go iss-* in modern Korean) were all expressed by *-eo is-* in the 15th century. That is, *anj-a iss-* ‘sit.down-CONV exist’ in modern Korean corresponds to *anj-a is-* of the 15th century, and both *ga-go iss-* ‘go-CONV exist’ and *ga-a iss-* ‘go-CONV exist’ correspond to *ga-a is-* of the 15th century. Even *ip-go iss-* ‘put.on-CONV exist’ in modern Korean corresponds to *nip-eo is-* ‘put.on-CONV exist’ of the 15th century. The converbal ending *-aleo* had a much wider use than *-go*, and this was not confined to the context of the auxiliary *iss-*, but obtained also in clause combining. *Bae-leul ta-go gang-eul geonneo-* ‘ship-ACC ride-CONV river-ACC cross’ in modern Korean translates to *boy-elul ta-a gang-al geonneo-* of the 15th century. This wide usage of *-eo is-* in 15th century Korean reminds us of *-te iru* in modern standard Japanese and *zhe* 着 in Mandarin Chinese.

Naturally, *-eo is-* was a new-comer in the tense-aspect system of 15th century Korean. *-Geo-* was also peripheral in comparison to \emptyset and *-deo-*. I can make this assertion on the basis of frequency. 15th century Korean had the opposition between perfective and imperfective as a main axis, and also had perfect aspect as a peripheral addition. Such a system is widespread among languages of the world. For instance, in French before “*avoir* + past participle” was grammaticalized, the opposition between simple past (past perfective) and imperfect (past imperfective) was the main axis in the past tense, and the “*avoir* + past participle” construction had the perfect aspect function similar to “*have* + past participle” in English. In modern French, the simple past has fallen out of use, and “*avoir* + past participle” took its place.

Functions of \emptyset and -deo- in the Narrative Discourse

When a language has an opposition between perfective and imperfective in the past tense, these two are usually used differently in the narrative discourse. Perfective is used in foreground events, which advance the main plot of the story, whereas imperfective is used in background events which support the main events. If a language does not have perfective and imperfective but has similar aspectual markers, you can also see similar phenomena. For instance, in English, simple past tense tends to be used in foreground, whereas past progressive or past perfect tends to be used in background. Also in modern Korean, *-eoss-* tends to be used

in foreground, *-eoss-eoss-* or *-eo iss-eoss-* is used when describing background events which had occurred before, and *-go iss-eoss-* is used when describing background events which were obtained at the same time as the main events.

- (1) a. 칠수는 10년 만에 순희와 재회했다. (foreground: *-eoss-*)
 b. 순희는 3년 전에 이미 남편을 여의고 혼자 되어 있었다.
 (background: *-eo iss-eoss-*)
 c. 두 사람은 한동안 아무 말 없이 길을 걸었다.
 (foreground: *-eoss-*)
 d. 거리는 성탄을 즐기 위해 나온 젊은 연인들로 북적거리고 있었다.
 (background: *-go iss-eoss-*)
 e. 순희가 침묵을 깨고 입을 열었다. (foreground: *-eoss-*)

Then you can expect that in 15th century Korean, \emptyset was used in foreground, and *-deo-* in background. There are many examples confirming this expectation.

- (2) a. 六師의 弟子 勞度差 | 幻術을 잘 하더니 (background: *-deo-*)
 b. 한 사람 알퐁 나아呪하야 혼 남글 지스니 (foreground: \emptyset)
 c. 즉자히 가지 퍼디여 모든 사르물 그리두프니 (foreground: \emptyset)
 d. 곳과 여름괘 가지마다 다르더니 (background: *-deo-*)
 e. 舍利弗이 神力으로 旋風風을 내니 (foreground: \emptyset)
 f. 그 나뭇 불휘를 쎄혀 그우리 부러 가지 것비쳐 드트리 드외이
 빛아디거늘 (foreground: no opposition)
 (釋詳 6:30a-6:31a)

In (2), \emptyset is used in foreground events, while *-deo-* is used in background events, as expected, in front of the converbal ending *-ni*. In (2f), the converbal ending is *-geoneul*, and *-deo-* cannot appear in this environment, so there is no opposition of \emptyset and *-deo-*.

It is notable that *-deo-* is used not only in background, but also in foreground, not infrequently.

- (3) a. 西天入法에 모로매 프를 실오 안찌니 (= *anj-deo-ni*, background: *-deo-*)
 b. 天帝釋이 사르미 드와야 孔雀의 목빛 마튼 프를 뷔여가거늘
 (foreground: no opposition)

- c. 菩薩이 일흐플 무르신대 (foreground: no opposition)
 d. 對答호스보되 吉祥이로이다 호고 그 프를 받즈바늘
 (foreground: no opposition)
 e. 菩薩이 바다다가 식르시니 짜히 마장 드러치더라 (foreground: *-deo-*)
 (釋詳 3:42b-3:43a)

- (4) a. 王이 婆羅門을 만히 請호시고 太子 아나 나샤 일흠 지터사니
 (= *jih-deo-si-ni*, background: *-deo-*)
 b. 모다 슬보되 “나심 저기 吉慶드윈 祥瑞 하사란디 일후플
 薩婆悉達이라 호습사이다” (foreground: main predicate ellipsed)
 c. 虛空에서 天神이 불 티고 쉰 퀴우며 곳 비코 널오디 [天神은 하눌
 神靈이라] 도호시이다 호더라 (foreground: *-deo-*) (釋詳 3:2b-3:3a)

In statistics obtained from Volume 3 of *Seokbosangjeol*, \emptyset was used in foreground 69 times, and there was no instance of \emptyset used in background. In contrast, *-deo-* was used in background 43 times and in foreground 42 times. The number of instances of *-deo-* in foreground is comparable to that in background. On the basis of this fact, one could argue that *-deo-* in 15th century Korean was not an imperfective marker, but I think this is an overstatement. Linguists' conception of the prototype of perfective and imperfective was formed mainly on the basis of Slavic and Romance languages, and on the basis of observing these languages, the expectation was also formed that perfective is used in foreground and imperfective in background. If one rules out a candidate just because it fails to satisfy one of many expectations about the prototype, this judgement does not accord with the spirit of prototype theory. From the point of view of prototype theory, *-deo-* in 15th century Korean is somewhat off the focal point of imperfective prototype, in that it is used as frequently in foreground as in background, but in other respects, it shows enough properties of imperfective.⁴ Only *-deo-* can be used in background, but either \emptyset or *-deo-* can be used in foreground, so one has to investigate the semantic or functional difference between these two in foreground in the future.

4. The imperfective in Romance languages can also sometimes be used in foreground: “*Pierre appela* (foreground: perfective) *au secours*. *L'instant d'après, un policier arrivait* (foreground: imperfective), *défonçait* (foreground: imperfective) *la porte et libérait* (foreground: imperfective) *Pierre*.” You can see that the correlation between imperfective and background is not perfect even in Romance languages.

Prefinal Ending *-nA-*

The Question

You can see many instances of the prefinal ending *-nA-* in 15th century material, and this ending has survived as *-neu-* in modern Korean. It is widely accepted that this ending is combined only with verbs, not with adjectives, and that this ending and its descendant encode present tense, but there are counter-examples to both of these two generalizations.

In Sino-Korean material, there are three characters 內, 飛, and 臥 which can be related to *-nA-*. These three characters are considered to correspond to two elements in ancient Korean, *-nA-* and *-nu-*. This implies that these two merged into *-nA-* in middle Korean. Here arise two questions:

- ① What is the correspondence between the three characters 內, 飛, and 臥 on the one hand and the two elements *-nA-* and *-nu-* on the other?
- ② What is the grammatical and/or semantic difference between *-nA-* and *-nu-* in ancient Korean?

General Situation in the 15th century

The following table represents the tense-aspect inflections of verbs and adjectives in 15th century Korean, and is very similar to that of the adnominal inflections of modern Korean.

Realis Mood			Irrealis Mood Future Tense	
verb	adjective	meaning	verb	adjective
<i>meok-Ø-da</i>	---	past perfective	<i>meok-euli-la</i>	<i>dyoh-euli-la</i>
<i>meok-deo-la</i>	<i>dyoh-deo-la</i>	past imperfective		
<i>meok-nA-da</i>	<i>dyoh-Ø-da</i>	present		

The usages of *-nA-* can be classified as follows:

- ① State-of-affairs obtaining at the speech time
 - (5) 그저기 多寶佛이 더 菩薩의 니르샤디 善男子아 오나라 文殊師利法王子 | 네 모물 보고져 ㅎ는다.

善男子!來, 文殊師利法王子 欲見汝身. (釋詳 20:41a)

(6) 導師 | 닐오디 두루 브라면 白銀山이 잇느니 보시느니잇가 太子 | 닐오디 東南애 ㅎ 白銀山이 ㅂ니다.

導師言:『四望應當有白銀山。汝見未耶?』太子言:『東南方有一白銀山現』 (月釋 22:39b-22:40a)

② State-of-affairs occurring habitually or iteratively

(7) 도타 도타 藥王아 네 이 法師를 어엿비 너겨 擁護 ㅎ는 전츠로 이 陀羅尼를 닐어 衆生들 ㅎ그에 만히 饒益기 ㅎ는다.

善哉, 善哉! 藥王! 汝愍念擁護此法師故, 說是陀羅尼, 於諸衆生, 多所饒益. (釋詳 21:25a)

③ Timeless, gnomic fact

(8) 舍利弗아 엇데 諸佛 世尊이 다믄 ㅎ 큰 잇 因緣으로 世間에 나시느다 ㅎ거노 ㅎ란디 諸佛 世尊이 衆生을 부텃 知見을 여러 淸淨을 得게 호려 ㅎ샤 世間에 나시며... 衆生이 부텃 知見道에 들에 호려 ㅎ샤 世間에 나시느니 (釋詳 13:49a) / 舍利弗아 엇데 일후미 諸佛 世尊이 오직 一大事因緣 전츠로 世間에 나 現 ㅎ삼고 諸佛世尊이 衆生으로 부텃 知見을 여러 淸淨을 得게 ㅋ져 ㅎ실썻 世間에 나 現 ㅎ시며... 衆生으로 부텃 道에 들에 ㅋ져 ㅎ실썻 世間에 나 現 ㅎ시느니라.

舍利弗아 云何名諸佛世尊이 唯以一大事因緣故로 出現於世 諸佛世尊이 欲令衆生으로 開佛知見 ㅎ야 使得淸淨故로 出現於世 ㅎ시며... 欲令衆生으로 入佛知見道故로 出現於世 ㅎ시느니라.

(法華 1:179a)

④ Scheduled future

(9) 太子 | 使者 브려 利師跋王의 닐오디 善友 大海로셔 오느다 ㅎ야늘...父母 | 太子 오느다 드르시고.

太子遣使往白利師跋王:『善友從大海歸』...父母聞太子歸.

(月釋22:64a)

Special Usage of *-nA-* in the 15th century

As the conversion from adjectives to verbs was very productive in middle Korean, you can of course see many instances in which an original adjective has been converted to a verb and combined with *-nA-*. In addition, there are some instances in which an original adjective has not been converted to a verb but combined with *-nA-* (Lee 2009).

(10) 病 瘵 傷 害 이셔 또 인는 바를 조차 기러 죽음에 니르러도 오직 네
근느니라.

病根常在 ㄱ야 又隨所居而長 ㄱ야 至死只依舊 | 나라.

(小學 5:3a_3-4)

(11) 火珠와 燈 초 잡고 [火珠는 불 구스리니 불 7티 붉느니라] 甲 덥고
北方 으로서와 北 녘 거티 습掌 ㄱ야 셔며 (釋詳 3:28b)

(12) 어픈 손과 밋미즌 마치로 갈홀 밧고디 아니 ㄱ야 도 도히 브리는
사르믄 다 쉽느니라.

伏手滑槌로 不換劍 ㄱ야 도 善使之人 은 皆總便 이나라. (金三 3:14a)

(13) 一切 經論에 므스미 怯 ㄱ야 사오나옴 업느니 怯 ㄱ야 사오나옴
업슬식 곧 一切 經論智 일우믈 得 ㄱ느니

於一切經論 心無怯弱 無怯弱故 即得成就一切經論智

(원각하1-2:32b_7-10_해주)

(14) 大王 하 아르 쇼셔 姪 欲 앓 이룬 [姪 欲 은 姪 亂 ㄱ 欲 心 이라] 즐거부믄
적고 受 苦 | 하느니

大王當知 姪欲之事 樂少苦多

(月釋 7:18a)

(15) 識 浬 거러 안 ㄱ로 소스면 곧 境 브르미 니러 상네 뒤오 智水 |
안 ㄱ로 얼의면 곧 브름과 드틀왜 자아 상네 괴외 ㄱ느니 靜 호티
靜 ㄱ 相 업서사 眞實 스 불고미 제 비취리니 이틀 닐은 住 업슨
므슴 나미며 이 眞實 스 菩 薩 의 住 홀 고디나라

識浪이 內湧 ㄱ면 則 境風이 作而常動 ㄱ고 智水 | 內凝 ㄱ면

則 風塵이 息而常靜 ㄱ느니 靜無靜相 이라사 眞明이 自照 ㄱ리니

是謂無住生心 이며 是眞菩薩住處 | 나라(金三3:34a_1-4_해함)

In (10), “네 근느니라” is the translation of 依舊, so it means “is the same as the past,” not “become the same as the past.” (11) is an encyclopedic explication of the term firebead 火珠, so “붉느니라” should be considered to be a description of the general properties of firebeads, not a change of state such as “become bright.” (12) means that a skillful person deals well with materials even though their tools or other conditions are not good. “쉽느니라” in (12) means that it is easy in nature, not that it becomes easy. (13) cannot mean “disappear,” as it is the translation of 無怯弱. (14) also means that sensual activities are accompanied by much pain and small pleasure by their nature, not that pain is increasing. Also in (15), as the adverb “상네” *always* shows, “괴외 ㄱ느니” means that it is calm always, not that it becomes calm.

In all of these examples, the verbal inflections containing *-nA-* assert generic/permanent facts. This accords with the property of “ㄱ/飛/內(느)” in Sino-Korean material.

It is peculiar that *-eops-* is often combined with *-nA-* in double negation constructions. These cannot be interpreted as meaning changes-of-state either.

(16) a. 三乘이 理를 아로디 理를 窮究 아니옴 업느니

三乘이 悟理호디 理를 無不窮 ㄱ느니 (永嘉上12a)

b. 十方 諸如來와 三世 脩行者 ㄱ리왜 이 法을 因 ㄱ야 普提 일우믈
得 ㄱ디 아니 ㄱ리 업느니

十方諸如來와 三世修行者 | 無不因此法 ㄱ야 而得成菩提
ㄱ느니 (원각하 2-2:43b)

c. 性을 受 ㄱ며 命을 바도미 분디 아니 ㄱ리 업느니

受性稟命이 莫不由之 ㄱ느니 (원각하 1-1:23b_11_해)

d. 내 보니 일옴난 가문과 노푼 족속이 조상 의 통심 ㄱ며
효도 ㄱ며 브즈러니 ㄱ며 검박호므로 일위 세디 아니리 업고

즈손이 모덜며 경박 ㄱ며 사치 ㄱ며 오만호므로 업디디디
아니 ㄱ리 업느니

余見名門右族이 莫不由祖先의 忠孝勤儉 ㄱ야 以成立之 ㄱ고
莫不由子孫의 頑率奢傲 ㄱ야 以覆墜之 ㄱ느니 (翻小 6:20b_1-2)

e. ㄱ다가 사르미 如來 滅後에 般若波羅蜜心을 發 ㄱ며
般若波羅蜜行을 行 ㄱ야 닷가 니겨 이라 부텃 기픈 ㅼ들 得 ㄱ닌
諸佛이 모르시리 업스시느니

若有人이 於如來滅後에 發般若波羅蜜心 ㄱ며 行般若波羅
蜜行 ㄱ야 修習悟解 ㄱ야 得佛深意者는 諸佛이 無不知之 ㄱ
시느니 (金剛 37b)

Situation in the Modern Jeju Dialect

Adjectives in the modern Jeju dialect have two present tense inflections (Ko 2007).

① Declarative without *-neu-*

(17) 이구들은 ㄷ다.

(meaning: This room is warm now.)

(18) 이구들은 지금 ㄷ다.

(19) *이구들은 느랏 ㄷ다.

② Declarative with *-neu-*(20) 이구들은 듯은다.

(meaning: This room is warm always.)

(21) *이구들은 지금 듯은다.(22) 이구들은 느랑 듯은다.③ Interrogative without *-neu-*(23) 이구들은 듯으냐?

(meaning: Is this room warm now?)

(24) 이구들은 지금 듯으냐?(25) *이구들은 느랑 듯으냐?④ Interrogative with *-neu-*(26) 이구들은 듯느냐?

(meaning: Is this room warm always?)

(27) *이구들은 지금 듯느냐?(28) 이구들은 느랑 듯느냐?

These examples show that *-neu-* combined with adjectives indicates permanence or generic/gnomic truth.

Situation in Seokdokgugyeol

The character “卜” (*nu* 卜) is considered to encode present tense, and the meaning and distribution (only combining with verbs, not with adjectives) are similar to those of *-na-* in the 15th century. It never combines with the verbal noun ending “-尸” (*eulh*), future/irrealis “-牙-” (*li*), or imperative endings. There are 84 instances, and 6 additional instances of the variant “又” (*no*).

The character “飞” (*na* 飛) can combine with verbs, adjectives, or the copula. There are 465 instances.

(29) 一一國土中₇佛₇及₇大衆₇ノ令₇各₇各₇ヲ般若波羅蜜₇說₇(니르) 飞ハニ₇ | (느시다) (구인 2:6-7)(30) 能₇答₇ッニ₇令₇者₇無₇セ₇(없) 飞ハニ₇ | (느시다) (구인 3:3)(31) {於}戒₇及₇七₇學₇ノ令₇ヲ₇常₇順行₇ッ₇飞₇入₇シ₇一切₇如來₇尸僞美₇ッ₇所₇(마) 飞 飞牙₇分₇(느리며) (화엄 10:13)

It can combine with the verbal noun ending “-尸” (*eulh*), future/irrealis “-牙-” (*li*), or the imperative ending “-立” (*syeo*), which implies that it cannot be a present tense marker.

(32) {於}諸言辭₇十₇動₇不₇冬₇去₇不₇冬₇住₇不₇冬₇來₇不₇冬₇
ッ₇ナ₇牙₇四₇生滅₇現₇飞₇尸₇(느여) (금광 14:20)(33) 若₇常₇戒₇持₇學處₇受₇ッ₇飞₇尸₇入₇(느고든) 則₇能₇支₇
諸₇功德₇具足₇ッ₇飞₇牙₇分₇(느리며) (화엄 10:11)(34) 佛₇子₇菩₇薩₇在₇家₇ッ₇十₇十₇當₇願₇口₇尸₇衆₇生₇家₇性₇ヲ
空₇ノ₇知₇其₇逼₇迫₇免₇支₇飞₇立₇(?느서) 飞牙₇分₇
(화엄 2:18-19)

It can also combine with the converbal ending “-分” (*myeo*) which is also a difference from *-na-* in the 15th century.

(35) 時₇十₇無₇色₇界₇子₇量₇無₇變₇ノ₇飞₇大₇香₇花₇雨₇ヲ₇
香₇車₇輪₇{如} | 飞 花₇須₇彌₇山₇王₇{如} | 飞 雲
{如} | 飞 而₇下₇ッ₇飞₇分₇(느고늘며) (구인 2:14-15)(36) 大₇衆₇歡₇喜₇ッ₇金₇花₇散₇ッ₇白₇口₇飞₇分₇(느슴고늘며)
百₇億₇萬₇土₇六₇大₇動₇ッ₇飞₇分₇(느고늘며) 生₇舍₇ッ₇飞₇之₇
生₇妙₇報₇受₇口₇飞₇分₇ (구인 11:11-12)

It appears mainly in sentences expressing generic/permanent truths, not episodic events.

(37) a. 佛₇子₇若₇諸₇菩₇薩₇善₇其₇心₇乙₇用₇ッ₇飞₇尸₇入₇ 則₇能₇支₇
一切₇勝₇妙₇功₇德₇乙₇獲₇飞₇牙₇四 (화엄 2:12-13)b. 若₇常₇戒₇持₇學處₇受₇ッ₇飞₇尸₇入₇ 則₇能₇支₇戒₇乙₇
持₇ッ₇學處₇受₇ッ₇飞₇牙₇分₇ 若₇常₇戒₇持₇學處₇乙₇
受₇ッ₇飞₇尸₇入₇ 則₇能₇支₇諸₇功德₇具足₇ッ₇飞₇牙₇分₇
(화엄 10:10-11)c. 若₇身₇充₇徧₇虛₇空₇如₇安₇住₇不₇動₇十₇方₇滿₇ッ₇飞₇尸₇入₇ 則₇彼₇ヲ
所₇行₇與₇セ₇ッ₇ホ₇等₇口₇令₇無₇諸₇天₇世₇人₇ノ₇牙₇能₇支₇
知₇令₇莫₇去₇ナ₇ホ₇セ₇ | (화엄 14:7-8)d. 見₇聞₇ッ₇聽₇受₇ッ₇若₇供₇養₇ッ₇ッ₇口₇飞₇尸₇入₇ 皆₇能₇支₇
安₇樂₇乙₇獲₇令₇尸₇不₇ッ₇尸₇尸₇靡₇リ₇セ₇ッ₇飞₇牙₇分₇ (화엄 14:10)

e. 善男子 若 得 亦 是 金光明經 乙 聽聞 ッ 白 口 ナ 一 切 菩薩 一 阿耨多羅三藐三菩提 十 十 退 不 冬 ヲ ヒ ヱ セ 一

(금광 13:23-24)

(38) 善男子 是 金光明經 乙 聽聞 ッ 受持 ッ 入 乙 以 一 入 故 ノ 是 善男子 善女人 一 ノ 一 切 罪障 乙 悉 能 除滅 ヲ 極清淨 一 入 乙 得 ヲ 常リ 得 亦 佛 乙 見 白 世尊 乙 離 不 矢 常リ 妙法 乙 聞 白 常リ 正法 乙 聽 白 不 退 地 十 生 二 師子勝人 乙 而 得 亦 親近 一 白 相 一 遠離 不 冬 ヲ ヒ ヱ 無 盡 無 滅 無 邊 佛身 能 顯現 阿羅尼 一 ノ 一 乙 ヲ ヲ ヒ ヱ

(금광 14:3-15)

In (37), “-ヒ入一” in the protasis (conditional clause) and “-ヒ牙-” in the apodosis show a kind of concord. Especially in (37b), the apodosis in the previous protasis-apodosis pair is repeated as a protasis in the new pair, and such 70 or so pairs are chained one after another. In (37d), the verbal inflection is more complex, but the fact that “-ヒ-” appears both in the protasis and the apodosis remains the same. “-ヒ-” can appear only in the protasis as in (37c), or can appear only in the apodosis as in (37e).

It can also appear in the apodosis paired with reason/cause clauses, as in (38). The sentences in (37) express generic statements that if Bodhisattvas do such-and-such things, then such-and-such things result. (38) also expresses the generic statement that if one hears and keeps the words in *Golden Light Sutra* (*Suvarṇaprabhāsa Sūtra* 金光明經), (s)he will get such-and-such things. The feature that *-n1-* appears both in the protasis and the apodosis expressing a generic/gnomic truth is shared with the sentence in “Anminga” 安民歌, which we will look at later.

Next, let us look at the imperative “-ヒ立” (*n1syeo*).

(39) a. 佛子 云何 一 乙 用心 一 一 十 能 一 切勝妙功德 乙 獲 一 丁 今 口 ヲ 入 佛子 菩薩 一 在家 一 一 十 當 一 願 口 入 一 衆生 一 家性 一 空 一 一 乙 知 亦 其 逼迫 乙 免 一 乙 立 一 ヲ 牙 一

(화엄 2:17-19)

b. 睡眠 乙 始 一 一 寤 一 一 十 當 願 衆生 一 一 切智 一 覺 一 一 周 一 一 十 方 乙 願 一 一 乙 立 一 一 牙 一

(화엄 8:15)

The verbal inflection “-ヒ立” appears 130 or so times from (39a) to (39b). In the middle portion, some grammatical elements are not written, but the recurrent pattern of the structure can be represented as follows:

(40) S1- 一 一 十 當 一 願 口 入 一 [S2- 乙 立] ヲ 牙 一

In the middle portion, “一 一 十 當 一 願 口 入 一” is not written, and in the last sentence (39b) “一 一 十 當 一 願 口 入 一” appears instead of “一 一 十 當 一 願 口 入 一.” The subject of the matrix verb 願 is 菩薩, and the subject of the embedded clause S2 is 衆生. When the matrix and embedded subjects are different in the construction of hope in the 15th century, the ending *-gwadyeo* is used in the embedded clause. If S2 in (40) is an instance of indirect speech, “-ヒ立” can be considered to be similar to *-gwadyeo* in the 15th century. If S2 in (40) is an instance of direct speech, “-ヒ立” can be considered as a kind of imperative ending. It is difficult to pinpoint the exact meaning of “-ヒ-,” but it can be the same element in (37) and (38) which encodes permanence or gnomic truth, in that (39) is a general statement about what it is to get *ilcheseungmyogongdeok* 一切勝妙功德.

Some instances of “ヒ” appear in sentences expressing episodic events.

(41) a. 一 一 國土 一 中 一 十 一 佛 一 及 一 大衆 一 一 一 各 一 各 一 一 般若波羅密 乙 說 一 一 一

(구인 2:6-7)

b. 其 會 一 一 方廣 一 一 九百五十里 一 一 一 大衆 一 一 僉然 一 一 而 一 一 坐 一 一 一

(구인 2:8-9)

c. 是 金光明經 乙 說 一 一 已 一 一 一 三万億 菩薩摩訶薩 一 一 無 生 法 忍 乙 得 一 一 一 量 無 一 一 諸 菩薩 一 一 菩提心 乙 退 不 冬 一 一 一 量 無 一 一 邊 無 一 一 一 比丘 一 一 法眼淨 乙 得 一 一 一 量 無 一 一 衆生 一 一 菩提心 乙 發 一 一 一

(금광 14:22-24)

As the sentences in (41) are describing specific events which occurred in a specific Buddhist ceremony, “ヒ” in these sentences cannot be considered to encode permanence or gnomic truth. Such instances appear only in the *Old Translation of Humane King Sutra* 舊譯仁王經 and *Golden Light Sutra*. Considering these examples, it is better to recognize the polysemy of *-n1-*, rather than trying to embrace various senses of *-n1-* by one semantic label.

As sentences in (41) are narrative descriptions of past events, it appears to be difficult to consider the meaning of “-ヒ-” as present tense from a common-

sense perspective. However, one could still insist that it is possible to use a present tense marker in narratives about past events (e.g., historical present). From such a point of view, it would not be entirely impossible to see “- ㅅ -” as a present tense marker. Another possibility is that “- ㅅ -” in (41) expresses a meaning unrelated to tense.

Situation in *Hyangchal* and *Idu*

The character 臥 (*nu*) is essentially the same as “- 卜 -” in *seokdokgugyeol*.

- (42) 惡寸習落臥乎隱(디누은) 三業 (懺悔業障歌)
 (43) a. 衆矣白賜臥乎(畚시누은) 兒如加知谷寺谷中入成造爲賜臥
 亦之(호시누어다) 白臥乎(畚누은) 味及白節中 (慈寂碑陰 3-4)
 b. 覺眞國師門徒等乙不動入院完護衆作法祝上是在味
 出納爲臥乎事是去等右事須貼 (白巖寺貼文)

The character 飛 (*ni*) does not appear in *idu* 吏讀, and appears only once in *hyangga*.

- (44) 衆生安爲飛等 / 佛體頓叱喜賜以留也 (향순중생가)

In (44), *-ni-* appears in the protasis of a complex sentence stating a generic fact.

The character 內 does not appear in *seokdokgugyeol* and appear frequently in *hyangchal* 鄉札 and *idu*. There has been a debate on the reading of this character. The first group of scholars (such as Punghyeon Nam and Yong Lee) think that this character is used for its meaning, and read it as *an*. Other scholars (such as Jinho Park and Inyeong Heo) think that this character is used for its pronunciation. When adopting the latter position, the exact reading of this character in ancient Korean material is controversial. The pronunciation in the 15th century was “ㄴ” (*ni*), but the pronunciation in the Silla period had probably been “ㄴ” (*ny*) with lip rounding. The reasons are as follows:

- (a) 內 was *hékǒuzì* 合口字 with lip rounding in middle Chinese.
 (b) 內 corresponds to “ㄴ” (*ny*) in the transliteration of personal names:
 e.g., 赫居世~不矩內.

- (c) 詞腦, 詩惱, and 思內 were used interchangeably as terms referring to *hyangga* in *Samguk yusa* and *Samguk sagi*.

As the pronunciation of 內 in ancient Korean was “ㄴ” (*ny*), and “ㄴ” (*ni*) in the 15th century, one can infer that a change in the pronunciation occurred at some point in time. One cannot know exactly when such a change occurred. Therefore, some instances of 內 in *hyangchal* and *idu* correspond to “卜” (*ni*) in *seokdokgugyeol*, whereas others to “ㅅ” (*ni*). It is a task for the future to distinguish these two classes.

The usages of the character 內 can be classified as follows:

- ① Used in sentences asserting permanent/gnomic truths

- (45) 君如臣多支民隱如爲內尸等焉 / 國惡太平恨音叱如 (안민가)
 호-ㄴ-평든 太平호-ㄴ-따다
 cf. (46) 吾盼不喻慚盼伊賜等 / 花盼折叱可獻乎理音如 (헌화가)
 붓그라사-평든 받오-라따다

Both (45) and (46) consist of the protasis and the apodosis. Both clauses in (45) contain *-ni-*, whereas neither of the two clauses in (46) contains it. (46) is stating a specific fact that occurred between Suro-buin 水路夫人 and an old man who was taking a cow. In contrast, (45) is stating a general fact about a country, its king, his lieges, and the people. The prefinal ending 內 encodes the sense of permanence or gnomic truth, and corresponds to “ㅅ” in *seokdokgugyeol*.

The following sentence from *idu* also describes a general method of making Buddhist manuscripts, and contains 內.

- (47) 經之成內(일느) 法者楮根中香水散尔生長令內旅(호이느며)
 (華嚴經寫經造成記 2)

- ② Used with *-良齊* (*ajyeo*) or *-去齊* (*geojyeo*) expressing hope

- (48) a. 郎也持以支如賜烏隱 / 心未際叱盼遂內良齊 (찬기파랑가)
 b. 衆生叱海惡中 / 迷反群無史悟內去齊 (보개회향가)

It is clear that the combinations *-內良齊* (*ni-ajyeo*) and *-內去齊* (*ni-geojyeo*) express the sense of hope, but it is difficult to isolate the contribution of 內 in this construction. In later *idu* and *hangeul* materials, *-良齊* (*ajyeo*) or *-去齊* (*geojyeo*) express hope without 內.

③ Used in sentences expressing specific/episodic events.

- (49) a. 千手觀音叱前良中 / 祈以支(支)白屋尸 置內乎多(두늑오다)
 (禱千手觀音歌)
 b. 吾隱 去內如(가늑다) 辭叱都 / 毛如 云遣 去內尼叱古(가
 늑닛고) (祭亡妹歌)
- (50) a. 右寺原 問內乎矣(문늑온디) 大山是在以 別地主 無亦在彌
 (慈寂碑陰 3)
 b. 一品軍作隣(하) 二十一人亦 堀取五尺石築十尺方良中 排立令是
 白內乎矣(하이늑온디) (淨兜寺形止記 27-28)

All the sentences in (49) of *hyangga* and (50) of *idu* refer to specific events, and correspond to “*ㅆ*” in (41) of *seokdokgugyeol*.

A Hypothesis about the Origin and the Development of -*ㄴ*- and -*누*-
 A hypothesis about the diachronic change of -*ㄴ*- and -*누*-

In ancient Korean, there were two prefinal endings (or auxiliary verbs in some theories):

- ① -*누*-: encodes present tense. combines only with verbs. written as 臥 or 內.
- ② -*ㄴ*-: encodes permanent/gnomic facts. can combine with verbs, adjectives or the copula. written as 飛/ ㅆ or 內.

character			transliteration	function	combinatorics
<i>hyangchal</i>	<i>idu</i>	<i>gugyeol</i>			
爲飛如		ㅆ ㅆ	하늑다 (<i>hannada</i>)	permanency	verbs, adjectives, or copula
爲內如	爲內如		하늑다 (<i>hannuda</i>)	present tense	only with verbs
爲臥如	爲臥如	ㅆㅆ			

Most instances of -*ㄴ*- in the 15th century are mainly descendants of ①, despite their appearance. Instances of -*ㄴ*- combining with adjectives in the 15th century and the modern Jeju dialect are descendants of ②.

At some point in time in the Ancient Korean period, these two prefinal endings merged into one. How the very peculiar pattern arose in which present tense is encoded by an overt marker and past tense by zero in the 15th century Korean can be explained in part by the fact that -*ㄴ*- was not originally a present tense marker.

A hypothesis about the origin of the permanence marker -*ㄴ*-

Many languages use a nominal encoding in order to express permanence, for example, the bound noun “*もの*” (*mono*) in Japanese.

- Subject + predicate in terminal inflection: either temporary state reading or permanent property reading. (unmarked)
- Subject + predicate in adnominal inflection + *もの* + copula: only permanent property reading. (marked)

- (51) 大人は分別を備えているものだ。
- (52) 子どもはよく服を汚すものだ。
- (53) 人は物事が思い通りにいかなかった時、自分の為に理由を探すものだ。

Seokdokgugyeol has a bound noun “*ㅆ*,” corresponding to “*もの*” (*mono*) or “*こと*” (*koto*) in Japanese.

- (54) 復ッ 十方淨土乙 變ッ 百億高座乙 現ッ 百億須彌寶花乙 化ッ ノ ㅆ 有ヘナ ㅆ (구인 2:2-3)
- (55) 三生乙 ㅆ 正位 ㅆ 十 入ッ ㅆ ㅆ ㅆ {者} 或 ㅆ ㅆ 四生 ㅆ 五生 ㅆ 乃 ㅆ 至リ 十生 ㅆ ㅆ ㅆ 得 ㅆ 正位 ㅆ 十 入ッ ㅆ ㅆ ㅆ ㅆ ㅆ ㅆ ㅆ ㅆ ㅆ 聖人性乙 證 ㅆ ㅆ ㅆ ㅆ ㅆ ㅆ ㅆ ㅆ 一切無量報乙 得 ㅆ ㅆ ㅆ ㅆ ㅆ (구인 11:17-19)

It is possible for the permanence marker “*ㅆ*” to have originated from this bound noun. It is often the case that the source and the result of grammaticalization co-exist, which is called layering.

Alternation according to Transitivity

Typological Studies on Auxiliary Selection

According to linguistic typologists’ investigations, two auxiliaries having the same meaning/function often co-exist in a given language. For instance,

in many European languages, two perfect auxiliaries combining with past participles co-exist, corresponding to be and have in English. In ancient Japanese, there were two perfect auxiliaries *ぬ* (*nu*) and *つ* (*tu*). In such cases, the alternation condition is often related to transitivity of the main verb: i.e., one of them is combined with transitive verbs, while the other with intransitive verbs. In a similar vein, in modern Korean, in order to encode the resultative aspect, *-eo iss-* is combined with intransitive verbs, whereas *-go iss-* with transitive verbs.

In some cases, other factors can participate, in addition to transitivity. Intransitive verbs are divided into unaccusatives and unergatives. One common type of alternation is that one of the auxiliaries is combined with unaccusatives, while the other with unergatives and transitives. In some cases, the former can be restricted to a more specific subset of unaccusatives—e.g., motion verbs or verbs of going, coming, leaving, and arriving. The alternation between *être* and *avoir* for encoding the so-called complex past in modern French comes close to this pattern.

Prefinal Endings -geo- and -aleo- in the 15th century

These two endings were an issue in the grammar of middle Korean for a long time. Their meanings and the relation between them were unclear. In morphophonological terms, *-geo-* is a consonantal ending, and alternates with *-na-* after the verb *o-* “come.” In contrast, *-aleo-* is a vocalic ending, showing an alternation according to vowel harmony. Considering these morphophonological differences, these two were probably originally separate elements.

However, the opinion was presented that these two are in allomorphic relation with each other in the synchronic description of 15th century Korean, and that the alternation between these two is governed by transitivity (Ko 1980). This position is widely accepted now, also by the present author. In concrete terms, *-geo-* is combined with the copula, adjectives, and intransitive verbs, whereas *-aleo-* is combined with transitive verbs. This is one of the most important discoveries about middle Korean grammar, and was inspired by typological research. Although this rule of alternation has a few exceptions, the number is insignificant, and most of them can be explained away from a diachronic perspective. The complete alternation pattern of the morpheme {*geo*} is as follows:

1. After the verb {*o*} “come”: /*nal* (consonantal ending) ex: *o-na-da* ‘come-PERF-DEC’
2. After non-transitives: /*geol*
ex: *gip-geo-da* ‘deep-PERF-DEC’
* This alternant /*geol* is a consonantal ending. It is weakened into /*yeol* after the copula, /*ll* or the semivowel /*yl*. After the weakening, it is still a consonantal ending.
ex: *-이어다 -i-yeo-da* ← *i-geo-da* ‘be-PERF-DEC’
길어다 gil-yeo-da ← *gil-geo-da* ‘long-PERF-DEC’
3. After transitives (vocalic ending)
 - 3.1. After *yang* 陽 vowels: /*al* ex: *보아다 boada* ← *bo-a-da* ‘see-PERF-DEC’
 - 3.2. After *yin* 陰 vowels: /*eol* ex: *주어다 jueoda* ← *ju-eo-da* ‘give-PERF-DEC’

Naturally, vocalic endings alternate according to vowel harmony. Therefore, /*al* of 3.1. and /*eol* of 3.2. are instances of vowel harmony pairs. Naturally, consonantal endings show no alternation related to vowel harmony. Therefore, /*gal* (discussed later) and /*geol* are not instances of vowel harmony pairs.

Fusion of the Morphemes {geo} and {o}

{*Geo*} is peculiar with regard to fusional pattern with other morphemes, as well as alternation patterns. In particular, the fusion with the prefinal ending {*o*} shows an interesting pattern.

1. Before converbal endings and the adnominal ending {*n*}: fused into /*gal*. (no transitivity alternation)
ex: *헛가니 hA-ga-ni* (← *hA-geo-o-ni*), *헛간 hA-ga-n* (← *hA-geo-o-n*)
 - 1.1. This /*gal* is a consonantal ending, weakened into /*yal* after /*ll* or the semivowel /*yl*.
2. Before sentence-final endings: fused into /*gwal*. (no transitivity alternation)
ex: *헛과라 hA-gwa-la* (← *hA-geo-o-da*), *헛관더 hA-gwa-ndyeo* (← *ho-geo-o-ndyeo*)
 - 2.1. This /*gwal* is a consonantal ending, weakened into /*ywal* after /*ll* or the semivowel /*yl*.
ex: *알와라 al-ywa-la* (← *al-gwa-la* ← *al-geo-o-da*)

This pattern of fusion is similar to that between the morphemes {*geo*} and {*os*}. That is, {*geo*}+{*os*} is realized as /*gwasl*/. This similarity in the fusional patterns suggests that {*os*} is originally related to {*o*}, although they are distinct morphemes in the synchronic grammar of 15th century Korean.

It is interesting that the morpheme {*geo*} in isolation shows orderly alternation by transitivity, but when it has been fused with {*o*}, the fused forms show no transitivity alternation. The fused forms begin with the consonant /*g*/, and behave as consonantal endings in morphophonological respects. This suggests that the fusion of {*geo*} and {*o*} occurred long ago, and that the fused forms survived after *-geo-* and *-a/eo-* came to be related as allomorphs of one morpheme.

-Eoza -어ㅅㅅ, *-geoza* -거ㅅㅅ, and *-goza* -고ㅅㅅ

-Eoza and *-geoza* are different both in meaning and the internal constitution. *-eoza* has the same meaning as *-eoya* in modern Korean. That is, it expresses necessary condition or precondition. It has slim or no temporal meaning. It is considered to be a combination of the converbal ending *-eo* and the particle *-za*, so it combines freely with either transitives or intransitives.

-Geoza has the same meaning as *-goseoya* or *-go naseoya* in modern Korean. It has temporal successive relation as its core meaning. It can be analyzed as the combination of the ending *-geo-* and the particle *-za*.⁵ As it contains the allomorph *-geo-* of the morpheme {*geo*}, it can combine only with intransitives.

The counterpart of *-geoza* which has the same meaning/function and combines with transitives, is *-goza*. *-Goza* is the combination of the converbal ending *-go* and the particle *-za*.

The alternation pattern of these elements from a onomasiological perspective is as follows:

1. When one wants to express necessary condition or precondition: use *-eoza*. (no transitivity alternation)
2. When one wants to express temporal successive relation:

5. This combination has its own issue, in that after a prefinal ending, there is no final ending. One possibility is that *-za* here is fulfilling the role of a final ending.

2.1. After intransitives: use *-geoza*.

2.2. After transitives: use *-goza*.

When you search for the counterpart which alternates by transitivity, you need to look broadly, considering the possibility that candidates other than *-geo-* and *-a/eo-* can exist. Although Youngkeun Ko (1980) is a seminal work in relation to the transitivity alternation of {*geo*}, it clung to the superficial form, with the result that *-geoza* and *-eoza* were presented as counterparts with regard to the transitivity alternation, which is an important flaw in this work.

Concluding remarks

This paper showed that linguistic typology and diachronic considerations including Sino-Korean materials before the introduction of *hangeul* can shed light onto the synchronic grammatical study of 15th century Korean. The tense-aspect system of this period can be viewed from a typological point of view, and the diachronic research on pre-15th century material can help explain the special properties of the prefinal ending *-ni-*. As linguistic typology and Sino-Korean research advance, they will suggest more insights and implications for the grammatical study of 15th century Korean.

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Abstract

Historically, grammatical studies of 15th century Korean have been done mainly from an internal perspective. Through these efforts, many linguistic facts have been uncovered, but for future advancement, an external perspective is also needed. Linguistic typology and diachronic studies can provide such an external perspective. Linguistic typology can help describe more precisely the tense-aspect system of 15th century Korean, functions of tense-aspect markers, and alternation patterns of morphemes by transitivity. Sino-Korean materials of the old Korean period can help explain some peculiar uses of the prefinal ending “-*ni*-.”

Keywords: linguistic typology, grammatical history, Sino-Korean material, tense, aspect, transitivity, permanence, perfective, imperfective, perfect, resultative, alternation, allomorphy

