ANOTHER LOOK AT ASPECT IN THAI¹

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Abstract

The aim of the paper is twofold. The first aim is to analyse aspect in Thai in the framework of the selection-theory approach developed by Breu and Sasse (1991). The second aim is to study all possible co-occurrences of each of the three aspect markers: léew, kamlaŋ, yùu with the four classes of verbs and with the verbs occurring with other strategies within the five classes of states of affairs. It was found that the selectional approach chosen helped explaining the inceptive-stative state of affairs in Thai clearly. It also pointed out that the Thai aspectuality focused on the initial boundary and terminative boundary of the state of affairs. It is here that combinations of the three aspect markers occur. The study shows that they have certain rules of co-occurrences.

Keywords: aspect, selection-theory, Thai

1. Introduction

The aim of this paper is to describe the three aspect markers: léew, yùu and kamlaŋ in Thai from the selection-theory approach developed by Breu and Sasse

(Sasse, 1991). We select this approach because it allows us to explain an inceptive-stative state of affairs in Thai which an approach such as a viewpoint approach cannot. In this approach, aspect markers interact with the relevant temporal structure of verbs/states of affairs. A further aim is to study both the mutual compatibility of the three aspect markers among themselves as well as with different classes of states of affairs.

We will begin first with a brief discussion of aspect from a general perspective followed by a brief survey of previous studies of aspect in Thai. Then, we will present classes of verbs and states of affairs in Thai within the selection-theory framework. In the last part, we will give a picture of aspect in Thai, first with each of the three aspect markers mentioned above, then with the combination of these aspect markers.

2. Aspect from a general perspective

Aspect and its definition is a notorious problem in linguistics. Few grammatical categories have been treated and still are treated more extensively and with more terminological and notional confusion than the one of aspect. A recent study by Sasse (2002) which provides an excellent survey of the different approaches to this phenomenon confirms this statement. In our present study, we shall look at aspect from the perspective of a *selection-theory of aspect* as defined by Bickel (1997). This perspective combines the two main traditions in research on aspect, that is, the *viewpoint approach* (Koschmieder 1928/1929, 1934, Maslov 1962, Comrie 1976) and the *time-schema approach* which was mainly developed in the United States (Vendler 1967, Dowty 1979).

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The viewpoint approach: This approach roughly distinguishes two types of aspect, perfective and imperfective which are inflectional and thus obligatory. This dichotomy is typically attested in languages such as Greek, Russian or Bulgarian. The viewpoint dichotomy can also be referred to as aspect proper or ASPECT₁ as defined by Sasse (1991). The main dichotomy between perfective and imperfective can be defined as follows:

The operator of *imperfective aspect* presents a state of affairs as a situation without any reference to its temporal boundaries. It highlights the phase.

The operator of *perfective aspect* presents a state of affairs as a change of state with explicit

reference to its inherent temporal boundaries.

The time-schema approach: This approach is considered by Sasse (1991) as an Anglo-American answer to the continental, perfective-imperfective-based theory. In this approach inherent temporal characteristics of predicates are discussed as temporal patterns or time-schemata. Four time-schemata: states, activities, accomplishments and achievements were proposed by Vendler. These time-schemata are roughly described in terms of verb classes. Semantic temporal features such as [±static], [±punctual] are used to distinguish the verbs. In Table 1 verb classes in English based on the semantic properties: [±static], [±telic] and [±punctual] following Vendler (1967) are given.

State	[+static], [-telic], [-punctual]	<i>be sick, be dead, love, know</i>
Activity	[-static], [-telic], [-punctual]	<i>march, walk, swim, read</i>
Accomplishment	[-static], [+telic], [-punctual]	<i>melt, freeze, learn</i>
Achievement	[-static], [+telic], [+punctual]	<i>pop, explode, collapse, shatter</i>
[+static]: suggesting non-dynamic state of affairs.		
[+telic]: suggesting inherent terminal point in the state of affairs..		
[+punctual]: suggesting states of affairs with no internal duration.		

Table 1. English verb classes following Vendler's (1967)

A number of tests have been developed for deciding to which class a verb in a given language belongs. Table 2 from Van

Valin & LaPolla (1997: 94) provides a nice summary:

Criteria	States	Achievements	Accomplishments	Activities
Occurs with progressive	No	No	Yes	Yes
Occurs with adverbs like <i>vigorously, actively, etc.</i>	No	No	No	Yes
Occurs with adverbs like <i>quickly, slowly, etc.</i>	No	No*	Yes	Yes
Occurs with time adverbials like <i>for an hour</i> .	Yes*	No	Irrelevant	Yes
Occurs with time adverbial: <i>in an hour</i>	No	No*	Yes	No

* = not always

Table 2. Criteria for verb classification (from Van Valin & LaPolla 1997: 94)

The selection-theory approach: The combination of the viewpoint approach and the time-schema approach in selection theories is quite straightforward inasmuch as aspect markers as defined in the viewpoint approach operate on the temporal properties of states of affairs as defined in the time-schemata approach. If we take the opposition between *passé simple* (perfective) and *imparfait* (imperfective) in French and apply these two operators to a state of affairs belonging to the class of activities with the use of an activities verb *rôler* 'to rule', we get the following clauses:

- (1) a. Perfective:
Il rôla trente ans.
'He ruled thirty years.'
- b. Imperfective:
Il rôlait trente ans.
'He ruled thirty years.'

Although the English translation is the same, in the perfective case of (1a), the state of affairs of 'ruling thirty years' is seen within the initial and the terminal boundaries of thirty years. This is not the case with the imperfective in (1b), in

which no attention is paid to the boundary structure of the state of affairs.

Selection theories of aspect understand aspect markers as operators that select matching temporal phases as they are determined in the temporal semantics of a state of affairs with the temporal boundaries (Bickel 1997). The basic idea of this approach is that verbs and states of affairs as a whole as they are syntactically reflected by sentences have their temporal structures. These structures consist of temporal boundaries and phases. Temporal boundaries are characterized by changes of situations; situations are stretches of time within which a given state of affairs takes place. The temporal structure of verbs is inherent in the sense that it is part of the lexicon. Some theories only look at temporal structures as they are defined in the lexicon of individual languages. Other theories also integrate entire states of affairs. In the latter case, additional temporal boundaries can be added by adverbials or other markers. In this paper, we will take this stand. Given the temporal structure of verbs or states of affairs, the function of temporal operators is to operate on these structures. How this is done and what models of temporal

structures there are will be further clarified in the rest of this paper.

A number of selection-theory approaches are based on the four-class system as developed by Vendler (1967) and Dowty (1979). For our description of aspect in Thai in this paper, however, we need to introduce another system developed by Breu and Sasse (presented here according to Sasse (1991)); for Breu's approach and

its further development, see Breu (1985, 2000.) The Breu and Sasse system distinguishes five classes. These classes are defined on the basis of the following components: the initial change of situation (CS1) or the initial temporal boundary, the situation (S) or the phase itself and the terminal change of situation (CS2) or the terminal temporal boundary.

Totally stative (TSTA):	CS1 [S] CS2	<i>know, be dead, exist</i>
Inceptive-stative (ISTA):	[CS1 S] CS2	<i>sit down, get to know</i>
Action (ACTI):	[CS1 S CS2]	<i>work, sing, drink</i>
Gradually terminative (GTER):	CS1 [S CS2]	<i>die, kill, melt</i>
Totally terminative (TTER):	CS1 S [CS2]	<i>reach</i>

Table 3. The Breu and Sasse five classes of states of affairs with examples of verbs in English (Sasse, 1991)

The main reason why we need this approach is because the Vendler or Dowty system does not provide a class which is characterized exclusively by an initial temporal boundary and because, at the level of entire states of affairs, Thai aspect markers also operate on that boundary. Table 4 shows the lack of a class with

only an initial boundary in the Vendler or Dowty system. In the first four lines, we present the classes of the Vendler or Dowty system, in the fifth line the temporal structure of inceptive-stative states of affairs is added in the second column:

Vendler's states of affairs	States of affairs in this paper	States of affair configurations and explanation
States	Totally Stative (TSTA):	[S] situation only, no reference to temporal boundaries
Activities	Action (ACTI):	[CS ₁ S C ₂] initial boundary – situation – terminal boundary
Accomplishments	Gradually Terminative (GTER):	[S CS ₂] situation plus terminal boundary
Achievements	Totally Terminative (TTER):	[CS ₂] initial and terminal boundary collapse into one, no situation
	Inceptive-stative (ISTA):	[CS ₁ S] initial boundary plus situation

Table 4. Five classes of states of affairs adopted in this paper

Classes of states of affairs presented in Table 4 can minimally consist of an individual verb, or they can be in a more complex form consisting of a verb and its arguments or adverbials or both. As the Vendler and Dowty system understands the classification in terms of lexical properties of individual verbs, we shall adopt their classification in describing the four lexical classes of verbs for their interaction with aspect markers. At the level of states of affairs, we shall apply the classes distinguished by Sasse (1991) because it would otherwise be impossible to describe how aspect markers interact with states of affairs with only an initial boundary.

3. Previous studies of aspect in Thai

Compared to several other grammatical categories in Thai grammar, aspect has been studied by few grammarians and linguists. Most of these works treat aspect as one topic among others within the description of the whole language or within a complete study of syntax. Despite their brevity, they provide informative descriptions of aspect in Thai. Among these are Noss (1964), Panupong (1970), and Warotamasikkhadit (1972). Works which deal particularly with aspect in Thai are few. We will review two of them in this section: the one by Boonyapatipark (1983), and the other by Sookgasem (1990).

Based mainly on Lyons (1977) and also on Vendler (1967), Boonyapatipark (1983), in her dissertation entitled 'A Study of Aspect in Thai', proposes two main types of situations: static and dynamic. She subdivides static situations into permanent and temporary situations. Dynamic situations are subdivided into

two types: processes and events; then processes are further subdivided into non-accomplishments and accomplishments; for event types, she proposes two subtypes: achievement and momentary, the latter sub-class being her own. Momentary events are described as situations which cover a very short period of time and the verbs used to express these situations can co-occur with progressive and continuative markers. Boonyapatipark thus has identified altogether six types of situations: permanent state, temporary state, accomplishment, non-accomplishment, achievement and momentary. With these six types of situations, Boonyapatipark also proposes six verb classes under the condition that these verbs occur in a simple sentence with no modifying unit like adverbials or aspect markers. Such a condition implies that the classification is based on inherent features. But Boonyapatipark's third major type which she calls "verbs indicating either a dynamic situation or a state resulting from the completion of a dynamic situation" indicates that a lot of verbs in Thai cannot be exclusively classified as "dynamic" or "state" verbs but they can be either, depending on the environment in which they occur. In *khǎw pīt pràtuu* 'He closes the door.' *pīt* is a verb indicating a dynamic situation but in *pràtuu pīt* 'The door is closed.' *pīt* is a verb indicating a state. The adequate interpretation depends on the animacy of the subject of the sentence.

This category of "verbs indicating dynamic situations or states arising from such situations" is typologically the most interesting. It seems to be typical of Southeast Asian languages that some verbs can belong to different verb classes and that it is basically context which

decides which interpretation actually applies.

Boonyapatipark's contribution to a study of aspect is based on her careful examination of the occurrences of each of the six aspect markers: *yùu*, *yaŋ*, *léew*, *khəy*, *cà?* and *kamləŋ* with the different types of verbs classified above. For example, *kamləŋ* as a progressive aspect marker, usually co-occurs with verbs indicating dynamic situation but not with verb indicating achievement situations. Therefore **năŋ kamləŋ còp* 'the movie is ending' is not acceptable in Thai because *còp* is a verb indicating achievement.

However we find that a sentence such as *năŋ kamləŋ cà? còp léew* 'The movie is about to end.' is well accepted. Probably this is due to the fact that Boonyapatipark's framework only allows her to talk about the lexical temporal structures of verbs but not the temporal structure of state of affairs. *kamləŋ cà? còp* is an example of a move towards the terminative state of affairs.

Boonyapatipark refers to terms such as progressive, completive, perfective when she talks about aspect markers. Sometimes, she uses these terms to refer to situations, too. It is not clear how these aspectual features of the aspect markers interact with the six types of situations she sets up.

The second work that we would like to mention is Sookgasem's dissertation (1990) entitled "Morphology, Syntax and Semantics of Auxiliaries in Thai". In this work, Sookgasem dedicates a whole chapter to aspect which she calls "eventualities". She defines eventualities

or aspect in terms of Johnson (1981). Thus, the concept of eventualities "involves the idea of temporally distinct phases of an event, which are to be understood broadly as encompassing the whole sequence of an event's evolution through time. That is, the phases of an event begin with the earliest time that the event may be taken to be concrete reality in the projected course of events, and lasts until the latest time that the event continues to affect the shape of later events. Consequently, the phases of an event include times that are strictly earlier or later than the time of the event itself." It is apparently the last sentence of the definition that lets Sookgasem talk about the initial point and final point of an event. Another point that should be noted is that according to her, eventualities can be expressed at all levels from lexical word to verb phrase and sentence. This means that aspectual meaning is not only indicated within the lexical word but also by the co-occurrences of a verb and temporal expressions and aspect markers. Sookgasem divides verbs into non-temporal verbs such as *nāŋ* 'to sit', *dəŋ* 'to walk' and temporal verbs which are more or less equivalent to auxiliaries used by other linguists. She proposes that these temporal verbs have certain aspect elements of their own, for example, *rəəm* 'to begin' has an inchoative element; *léew*, a perfective element; *kamləŋ*, a progressive element; *phəŋ cà? sət*, a post-completive element. She then examines the occurrences of these temporal verbs with the types of aspect introduced by Vendler (1967): state, activity, accomplishment, and achievement. The temporal verb *kamləŋ* which is the progressive aspect verb, for example, cannot occur with a certain type of state. The temporal verb *sət* which highlights or

establishes a terminal boundary, cannot occur with the copula verb *pen* 'be' as in **khǎw pen khon sèt léew* [he be person stop ASP]. Sookgasem then investigates the four situation types at the sentence level, considering, for example, the plurality and singularity of the subject of the sentence with achievements. When it comes to non-temporal verbs, it is not clearly presented how types of situation and temporal aspect verbs are dealt with in relation to them.

4. Classification of verbs and states of affairs

In this section, we shall first look at classes of verbs based on their inherent temporal properties as described by Vendler (1967). Secondly, we will examine derived temporal structures and derived classes of states of affairs which are the result of the use of strategies for manipulating the temporal structure of states of affairs beyond the lexical properties of the verbs.

4.1 Temporal structures inherent to the verbs

All the four following classes of verbs can be distinguished:

4.1.1 State verbs

At the lexical level, state verbs can be identified by the semantic feature [+static, -telic, -punctual]. Some examples of state verbs are *pen* 'to be', *mii* 'to have', *khěŋ* 'to be hard', *kròot* 'to be angry', *rák* 'to love', *khâwcaj* 'to understand'.

The following illustrates these verbs in sentences:

- (2) *khon thay rák bâan kàet*
person-Thai-love-homeland
'The Thai people love their homeland.'
- (3) *hǐn khěŋ máay ?òon*
stone-hard-wood-soft
'Stone is hard, wood is soft.'
- (4) *mêe pen khon cay dii*
mother-be-person-heart-good
'Mother is a kind person.'

If we use the test in Table 2, we will get the following results as expected:

		State Verb khěŋ 'to be hard' as in hǐn khěŋ 'Stone is hard'
1	Occurs with progressive	-
2	Occurs with adverbs like <i>yàaŋ khěŋ khǎn</i> 'actively'	-
3	Occurs with adverbs like <i>yàaŋ rûatrew</i> 'quickly'	-
4	Occurs with time adverbials like <i>pen chûa moon</i> 'for an hour'	-
5	Occurs with time adverbials like <i>nay nàŋ chûa moon</i> 'in an hour'	-

Table 5. Example of state verb in Thai with identification criteria

4.1.2 Activity verbs

Activity verbs are identified by the semantic features [-static, -telic, -punctual]. Some examples of activity verbs are *dəən* 'to walk' *khuy* 'to chat' *ʔaan* 'to read'. Some examples of these verbs in sentences follow:

- (5) *khǎw dəən lēn*
he-walk-play
'He takes / is taking a stroll.'
- (6) *khǎw khuy kan*

they-chat-each other
'They chat (with each other).'

- (7) *khǎw ʔaan nǎŋsǎu*
she-read-book
'She is reading / read'

If we use the test in Table 2, we will get the following results as expected:

		Activity Verb <i>dəən</i> 'to walk' as in <i>khǎw dəən lēn</i> 'He is taking a stroll.'
1	Occurs with progressive	✓
2	Occurs with adverbs like <i>yàaŋ khěeŋ khǎn</i> 'actively'	✓
3	Occurs with adverbs like <i>yàaŋ rûatrew</i> 'quickly'	✓
4	Occurs with time adverbials like <i>pen chûa moŋ</i> 'for an hour'	✓
5	Occurs with time adverbials like <i>nay nùŋ chûa moŋ</i> 'in an hour'	-

Table 6. Example of activity verb in Thai with classification criteria

4.1.3 Accomplishment Verbs

Accomplishment verbs are identified by the semantic features [-static, +telic, -punctual]. There is only a small number of verbs belonging to this class for examples, *tàt sǎa* 'to make dress' *sàrùp* 'to draw a conclusion, to conclude', *rahǎey* 'to vaporize'. Examples of accomplishment

verbs: *tàt sǎa* 'to make dress', *sàrùp* 'to conclude', in sentences follow:

- (8) *khǎw tàt sǎa ʔeeŋ*
she -make -dress -self
'She makes her own clothes.'
- (9) *raayŋaan cà sarùp phrûŋnii*
report-will-conclude-tomorrow
'Work / report will be concluded tomorrow.'

Compared to other verb classes, inherent accomplishment verbs are quite rare in Thai. It seems that in Thai inherent action verbs are generally used with object noun phrases or adverbials to indicate accomplishment situation:

khǎw khǎan nǎngsǎm còp léew [he write book finish ASP], "He finished writing his book."

If we use the test in Table 2, we will get the following results as expected:

		Accomplishment Verb <i>sarup</i> 'to conclude' as in <i>khǎw sarup léew</i> 'he concluded already'
1	Occurs with progressive	✓
2	Occurs with adverbs like <i>yàaŋ khěeŋ khǎn</i> 'actively'	-
3	Occurs with adverbs like <i>yàaŋ rūatrew</i> 'quickly'	✓
4	Occurs with time adverbials like <i>pen chûa moonŋ</i> 'for an hour'	irrelevant
5	Occurs with time adverbials like <i>nay nǎŋ chûa moonŋ</i> 'in an hour'	✓

Table 7. Example of accomplishment verb in Thai with classification criteria

4.1.4 Achievement verbs

Achievements verbs can be identified by [-static, +telic, +punctual]. The following verbs belong to this class: *sèt* 'to be finished', *thǎŋ* 'to reach', *taay* 'to die'.

- (10) *ŋaan khǒŋŋ khǎw sèt ?aw*
naathii sùtttháay
 work-of-he-finish-minute-last
 'His work was finished in the last minute.'

If we use the test in Table 2, we will get the following results as expected:

		Achievement Verb <i>sèt</i> 'to finish' as in <i>ɲaan sèt</i> 'The work is finished'
1	Occurs with progressive	-
2	Occurs with adverbs like <i>yàaŋ khěeŋ khǎn</i> 'actively'	-
3	Occurs with adverbs like <i>yàaŋ rûatrew</i> 'quickly	_*
4	Occurs with time adverbials like <i>pen chûa moon</i> 'for an hour'	-
5	Occurs with time adverbials like <i>nay nùŋ chûa moon</i> 'in an hour'	_*

* = not always

Table 8. Example of achievement verb in Thai with classification criteria

4.1.5 Some generalizations about verb classes in Thai

Of the four verb classes suggested by Vendler (1967), two cover a large number of verbs in Thai (i.e. state verbs and activity verbs) and two consist only of a comparatively small number of entries (i.e. verbs of achievement and verbs of accomplishment). Besides, a number of verbs do not adhere to just one verb class. Thus, the following verbs can either be understood as activities or as states:

- (11) *sây sâa*
put on/wear-shirt
1 'to wear (state)'
2. 'to put on (activity)'
- (12) *pît*
close
1. 'be closed (state)'
2. 'to close (activity)'
- (13) *pəət*
open
1. 'to be open (state)'
2. 'to open (activity)'

4.2 Derived temporal structures and derived classes of states of affairs

There is quite a number of strategies for manipulating the temporal structure of states of affairs beyond the lexical temporal structure of individual verbs. If a state of affairs consists of just the verb, it is the lexical boundary structure of that verb which interacts with aspect operators. However, if more information is overtly added, the temporal structure of the verb can be overridden.

Here, we would like to enumerate the following strategies for adding information on to the temporal structure of a state of affairs beyond the lexical properties of the verb:

Directional verbs with
certain stative verbs

Resultative verbs

Adverbials that add temporal
boundaries or change a verb
with boundaries into a state

Quantified arguments

The use of phasal
verbs/phasal markers

The addition of terminal
markers

The following examples illustrate how additional information introduced by the above strategies produces states of affairs whose temporal structures clearly differ from the temporal structure as it is determined by the inherent temporal structure.

4.2.1 Directional verb strategy

With directional verbs *khûn* 'up' or *lɔŋ* 'down', we can get dynamic inceptive-stative state of affairs with lexically stative main verbs:

- (14) *phân khûn*
fat-up
'getting fat'

- (15) *phǎm lɔŋ*
thin-down
'getting thin'

4.2.2 Resultative verb strategy

With resultative verbs such as *ŋim* 'to be full' or *ŋɔk* 'to be out', we can get terminative state of affairs with an action verb as the main verb.

- (16) *kin ŋim*
eat-full
'eat to one's fill'

khít ʔɔk

- (17) think-out
'get a solution'

4.2.3 Temporal-adverbial strategy

With certain temporal adverbials such as *têe kòon* 'before' or *tâŋ têe năy têe ray* 'from time unknown' we can get, stative state of affairs with action verbs as main verb.

- (18) *khon thay kin khâaw tâŋ
têe năy têe ray*
people-Thai-eat-rice-since-
where-since-when
'Thais eat rice from time
unknown.'

4.2.4 Quantified argument strategy

With quantified phrase such as *săam chəbàp* 'three letters' we can get terminative states of affairs with action verbs as main verbs.

- (19) *khăw khīan còtmăây sâam
chəbàp*
she-write-letter-three-Clf.
'She has written three letters.'

4.2.5 Phasal verb strategy

With phasal verbs like *râem* 'to begin, to start' we can get inceptive-stative state of affairs with lexically stative main verbs.

- (20) *náam râem khěŋ*
water-start-hard
'The water is freezing.'

4.2.6 Addition of terminal marker strategy

With certain terminal markers such as *còp* 'to end', we can get terminative state of affairs with action verb as the main verb.

- (21) *khǎw khǎn nǎjsǎu còp*
 he-write-book-finish
 'He finished writing his book.'

5. Types of Aspect

If one looks at the aspectual system of Thai as a whole, there seems to be four layers. The first layer is based on the inherent temporal structure of the verb (see 4.1), the second on the temporal structure of the entire state of affairs and the strategies to manipulate temporal structure (see 4.2). On the third layer which will be discussed in 5.1, we find the individual aspectual markers as they interact with the semantics of the first two layers. At the fourth layer which will be the topic for 5.2, we will deal with combination of aspect markers. The mere fact that temporal markers can be combined does not sound possible if one thinks in terms of the classical aspectual functions of perfective vs. imperfective which are complementary and thus mutually exclusive in the classical aspect languages.

Since aspect crucially depends on the interaction of aspect markers with the temporal semantics of verbs or states of affairs, we do not need to discuss each class of states of affairs in detail in this paper. Instead, we would like to discuss how an aspectual marker with its particular semantic properties reacts if it is applied to a situation with no temporal boundary or to a situation with an initial

boundary or with a terminal boundary that includes the distinction between gradually and totally terminative or with both boundaries. It is for that reason that in 5.1 we will not strictly distinguish whether a temporal boundary is provided by the lexicon discussed in 4.1 or by one of the derivational strategies discussed in 4.2.

5.1 The three aspect markers *léew*, *yùu* and *kamlan*

5.1.1 The aspect marker *léew*

The aspect marker *léew* highlights a time boundary either the initial or the terminal one. If it interacts with the initial boundary, it expresses change to a new situation. If it interacts with a terminal boundary, it indicates that "a crucial amount of some activity has been reached" (See Boonyapatipark 1983:158-159).

It should be noted that the temporal boundary is either part of the state of affairs, (lexically in subsection 4.1 or by one of the strategies mentioned in subsection 4.2) or it is established by *léew*. We first look at those instances in which *léew* operates on temporal boundaries which are part of a given state of affairs. With inceptive-stative states of affairs and with terminative states of affairs, gradually as well as totally terminative ones, *léew* operates only on the existing temporal boundaries. In the following analysis, we will follow this order: with existing temporal boundaries, either initial or terminative [*SC₁S*; *SCS₂*]; with both temporal boundaries [*CS₁ S C₂*]; and no temporal boundary [*S*].

Inceptive-stative (ISTA) [CS₁ S]

- (22) With the resultative verb
khâw 'to enter'
expressing the initial boundary:

phôm rák thəə khâw léəw
I-love-she-enter-ASP
'I have fallen in love with her
(before I did not love her but
now I do)

- (23) With the directional verb
khûn 'to go up'
expressing the initial boundary:

ʔaakàat rón khûn léəw.
weather-hot-up-ASP
'The weather has started to
become hot (the temperature did
not increase before but now it is
doing so).'

Gradually terminative (GTER) [S CS₂]

- (24) With a resultative verb
ʔəək 'to be out'
expressing the terminative
boundary.

khăw khít ʔəək léəw
he-think-out-ASP
'He saw a solution (he was
thinking about the solution and the
phase of looking for a solution
came to a successful end).'

- (25) With locative adverbial
thăj bâan 'reaching home'
expressing the terminative
boundary.

khăw dəən thăj bâan léəw
he-walk-reach-home-ASP
'He has reached home (the process
of walking home has come to a
terminal point).'

Totally terminative (TTER) [CS₂]

With an achievement verb *sət* 'to be
finished' expressing the terminative
boundary.

- (26) *ʔaan sət léəw*
work-finish-ASP
'The work is/was finished (end of
the work is achieved).'

Action (ACTI) [CS₁ S CS₂]

Action states of affairs can be ambiguous
due to the presence of two boundaries.
Thus, in (27b) we get a completive
interpretation if *léəw* applies to the
terminal boundary. If it applies to the
initial boundary as in (27a), we get an
inchoative interpretation. If *léəw* applies
to the situation between the two
boundaries we get an interpretation in
which a change of state takes place with
regard to the object of the verb (before, he
ate, but he did not eat rice). This
interpretation is possible because *khâaw*
'rice' is taken as the object of the verb *kin*
'eat' and is focused, whereas it is
incorporated with *kin* in (27a) and (27b).

- (27) *khăw kin khâaw léəw*
he-eat-rice-ASP
a. (Inchoative): 'He has started
eating.'
b. (Completive): 'He has
finished eating.'

- c. (Change of State): 'He eats rice now, before he ate something else.'

State (TSTA) [S]

With simple state verbs, there is no temporal boundary for *léew* to interact with. Thus, it is used to establish a temporal boundary. The establishment of such a boundary implies a change of state as in the following example:

- (28) *ʔaakàat rón léew*
weather-hot-ASP
'The weather became hot.'

5.1.2 The aspect marker *yùu*

Boonyapatipark (1983) describes the function of *yùu* as follows:

"... with the use of *yùu*, the speaker can be said to view a situation as accumulating through time. The situation referred to is normally thought of as starting some time before a particular point in time which will be taken to be the time of speech unless otherwise indicated, and as continuing until some time afterwards. An exception to this generalization would be the case where a specific duration of time is given within which a situation lasts. In such a case the situation will be viewed as continuing through that time."
(Boonyapatipark, 1983: 110-111).

In our view, accumulating through time is not necessarily involved with *yùu*. The marker *yùu* describes that a situation is continuous through time or along time without reference to boundaries. For that reason *yùu* cannot operate on temporal boundaries and thus it is incompatible with inceptive-stative and with terminative states of affairs. With action states of affairs, the interaction is different because here *yùu* can operate on the phase between the initial and the terminal boundaries.

yùu is not compatible with a non-continuity state over time or a generic state.⁴ This is the reason why *yùu* may not co-occur with preverbs like *mák cà?* 'often, usually' or adverbials like *taam thammadaa* 'usually' which convey the meaning of non-continuity, for example, the sentence **khon thay mák cà? kin khâaw yùu* is not possible. The continuity of the situation expressed by *yùu* does not imply permanence. Given its temporary meaning, *yùu* is thus incompatible with generic statements. Therefore, a sentence like **hîn khěen yùu* is not acceptable in Thai. In the rest of this section, we look at the compatibility of different types of states of affairs with *yùu*.

⁴ In *khăw mák cà? ʔòk kamlaj yùu tɔɔn cháw cháw* (he-usually-exercise-ASP-in the morning) 'He is usually doing a body exercise in the morning', a time reference is given. This makes the state of affairs non generic and *yùu* can therefore occur with *mák cà?*

Totally stative [S]

yùu can occur with state verbs giving stative state of affairs.

- (29) *khǎw pen khruu yùu*
he-be-teacher-ASP
'He is a teacher (from the perspective of the speech act time he has been a teacher and continues to be a teacher. However this state may not last forever).'
- (30) *khǎw pen khruu yùu tɔɔn nǐi*
he-be-teacher-ASP-moment-this
'He is a teacher right now (his being a teacher is going on at the particular moment but it may not last forever).'
- (31) *khǎw pen khruu yùu tɔɔn nǎn*
he-be-teacher-ASP-moment-that
'He was a teacher at that time (his being a teacher was continuous at the reference time but not at the speech act time).'

Action (ACTI) [CS₁ S CS₂]

With activity verbs, for examples:

- (32) *khǎw ʔaan nǎŋsǔu yùu*
he-read-book-ASP
'He is reading a book (the phase of his reading a book continues through time for a while).'

Inceptive-stative (ISTA) [CS₁ S]

yùu cannot co-occur with inceptive stative verbs/states of affairs:

- (33) **phǒm rák thəə khǎw yùu*
I-love-she-in-ASP
'I fell in love with her.'
- (34) **ʔaakàat rɔɔn maa sɔɔŋ sǎam wan yùu*
weather-hot-come-two-three-day-ASP
'It became hot for two days.'
- (35) **khǎw rôəm thamŋaan yùu*
He-start-work-ASP
'He started working.'

Gradually terminative (GTER) [S CS₂]

yùu cannot occur with gradually terminative state of affairs:

- (36) **raw kin ʔim yùu*
we-eat-be-full-ASP
'We are eating to our fill.'

Note that this sentence can be spoken by Thai native speakers as the answer to the question 'Do you have enough?' The answer indicates that the speaker does not exactly have enough but more or less. Observe that *yùu* in this sentence does not give any aspectual meaning (see also sentence 41).

- (37) **khǎw khǎn còp yùu*
he-write-finish-ASP
'He finished writing.'
- (38) **khǎw sòŋ còtmǎay mòt yùu*
he-send-letter-finish up-ASP
'He sent all letters.'

Totally terminative (TTER) [CS₂]

yùu can neither occur with totally terminative states of affairs. Thus, it cannot occur with an achievement verb like *taay* 'to die':

- (39) **khǎw taay yùu*
he-die-ASP
'He was dead.'

However, totally terminative states of affairs are compatible with *yùu* if the achievement verbs imply consecutive occurrences as in the following example.

- (40) *pám náamman rabòt yùu*
filling station-explode-ASP
'The filling station is exploding.
(There is a series of explosions involved.)'

The marker *yùu* allows a pragmatic extension of its meaning beyond the domain of time if used with quality-denoting states. From the temporary states of a given quality, it is inferred that the quality itself is somewhat reduced. Thus in an example like (41) one can infer that this meal does not exhaustively meet the standard associated with the qualitative state of *ʔàròy*.

- (41) *ʔaahǎan ʔàròy yùu*
meal-be delicious-ASP
'The meal is quite good.'

5.1.3 The aspect marker *kamləŋ*

We agree with Boonyapatipark that *kamləŋ* marks a state of affairs which is in progress at reference time. Since this marker crucially depends on a potential time span to which it can apply, it is

incompatible with states of affairs which have no situation (S). As in the case of *yùu*, *kamləŋ* is not compatible with modal markers such as *mák cà?* 'often' and with adverbials such as *taam thammadaa* 'usually' and with generic statements for the same reasons. Thus, a sentence like **khon thay mák cà? kamləŋ kin khâaw* [people Thai often PROGR eat rice] is impossible. In the rest of this section, we look at the compatibility of different types of states of affairs with *kamləŋ*.

Totally stative (TSTA) [S]

In the case of totally stative of affairs, if the situation does not specify reference time *kamləŋ* is incompatible with totally stative states of affairs. Thus, example (43) and (44) are ungrammatical because they are generic statements and thus do not convey any specific reference time for *kamləŋ* to operate on.

- (42) *ʔaakàat kamləŋ rón.*
weather-ASP-hot
'(At reference time) the weather is hot'
- (43) **hǐn kamləŋ khěŋ*
stone-ASP-hard
'*Stone is being hard (impossible because 'Stone is hard.' is a generic statement where no reference time is indicated.)'
- (44) **khon thay kamləŋ rák bâan kàet*
people-Thai-ASP-love-homeland
'*Thai people are loving their homeland (impossible because 'Thai people love their homeland' is a generic statement where no reference time is indicated.)'

Inceptive-stative (ISTA) [CS₁ S]

The progressive marker *kamlaj* is compatible with inceptive-stative states of affairs:

- (45) *?aakàat kamlaj yen loŋ.*
 weather-ASP-cool-down
 '(At reference time) the weather is in the process of getting cooler.'

Action (ACTI) [CS₁ S CS₂]

The progressive marker *kamlaj* is compatible with action states of affairs:

- (46) *khǎw kamlaj ?aan nǎjsǔu.*
 he-ASP-read-book
 'He is reading a book (at reference time the action of reading is going on).'

Gradually terminative (GTER) [S CS₂]

The progressive marker *kamlaj* is compatible with gradually terminative states of affairs:

- (47) *khǎw kamlaj khón*
phóp wayrás tua màŋ
 he-ASP-discover-virus-Clf-new
 'They are discovering a new virus (at reference time the process of discovering a new virus is going on aiming at the terminal point).'

Totally terminative (TTER) [CS₂]

As the totally terminative has no [S], *kamlaj* is incompatible.

- (48) **khǎw kamlaj taay*

he-ASP-die

'He is dying (impossible because achievement verbs convey a situation at the point of time whereas *kamlaj* conveys a situation in progress).'

For some Thai speakers, this sentence is acceptable but with the meaning 'he is going to die,' for which the more appropriate and more acceptable sentence is *khǎw kamlaj cà? taay* (he-ASP-will-die).

5.2 Combination of aspect markers

Aspect markers can be used cumulatively. As we pointed out, this is remarkable because in aspect languages with a binary aspectual system (perfective vs. imperfective), aspect markers are complementary.

The compatibility of aspect markers depends on the type of states of affairs (totally stative, inceptive-stative, etc.) plus the semantics of the aspect markers involved. As for the mutual compatibility of aspect markers, there are three general rules:

- (a) The two markers *kamlaj* and *léew* are mutually exclusive and thus incompatible if they operate on the same temporal unit because *léew* refers to a point in time, while *kamlaj* refers to a time span. To be more precise, *léew* operates on time boundaries from a punctual perspective, while *kamlaj* points out that a given state of affairs is in progress at reference time. (The reason why

kamlan and *léew* can co-occur with inceptive states of affairs is given in section 5.2.3., cf. example 51(d)).

- (b) When the boundary marker *câ?* is introduced, it provides a very short span before the initial boundary marked by *léew*. *kamlan* and *câ?* interact with this short span towards the initial boundary marked by *léew*. Thus, incompatibilities among aspect markers can be cancelled.
- (c) More than two aspect markers can occur only if the marker *câ?* is involved.

In the rest of this section, we look at the five types of states of affairs and patterns of multiple aspect marking.

5.2.1 Combination of aspect markers with a totally stative state of affairs:

- (49) a. *náam rón*
water-hot
'The water is hot.'
The sentence is said when one touches the cup of hot water.
- b. Progressive + Continuative:
náam kamlan rón yùu
water-ASP-hot-ASP
'The water is being hot (now, but may be not so later).'
The sentence conveys the same state of affairs as the one in sentence (42)
- c. Continuative + *léew*:
náam rón yùu léew
water-hot-ASP-ASP

'The water is hot.'

The sentence is said when someone tells the hearer to heat the water and s/he thinks it is already hot, i.e., no reheating is needed. *léew* sets a boundary and *yùu* marks that the state of hotness continues in that temporal boundary.

- d. Progressive + *léew*:
**náam kamlan rón léew*
water-ASP-hot-ASP
Incompatibility of the two markers; See Rule (a) above.
- e. Progressive + Continuative + *léew*:
**náam kamlan rón yùu léew*
water-ASP-hot-ASP-ASP
Incompatibility of the two markers; See Rule (a) above.
- f. Progressive + marker *câ?* + Continuative + *léew*:
náam kamlan câ? rón (yùu) léew
water-ASP-*câ?*-hot-ASP-ASP
'The water is about to become hot.'

The marker *câ?* explicitly introduces a short temporal span before an initial boundary. The marker *léew* operate on the initial boundary, which it introduces in the case of stative states of affairs. *léew* expresses the imminent change of state at this initial temporal boundary after the very short span introduced by *câ?*. The other two markers *kamlan* and *yùu* also operate on this very short span.

5.2.2 Combination of aspect markers with an action state of affairs:

- (50) a. *yaay kamlaŋ kin khâaw*
 grandma-ASP-eat-rice
 'Grandma is eating'
- b. Progressive + Continuative:
yaay kamlaŋ kin khâaw yùu
 grandma-ASP-eat-rice-ASP
 'Grandma is eating [the action is progressing at reference time.]'
- c. Continuative + *léew*:
yaay kin khâaw yùu léew
 grandma-eat-rice-ASP-ASP
 'Grandma is eating now.'

The doctor tells the speaker to make it possible to have grandma eat and s/he then tells the doctor that there is no need to worry because grandma is eating/has been eating. *léew* refers to an initial boundary of *kin* 'to eat' and the action continues from that time boundary.

- d. Progressive + *léew*:
 **yaay kamlaŋ kin khâaw léew*
 grandma-ASP-eat-rice-ASP
 Incompatibility of the two markers; See Rule (a) above.
- e. Progressive + Continuative + *léew*:
 **yaay kamlaŋ kin khâaw yùu léew*
 grandma-ASP-eat-rice-ASP-ASP
 Incompatibility of the two markers; see Rule (a) above.

- f. Progressive + marker *cà?* + Continuative + *léew*
yaay kamlaŋ cà? kin khâaw yùu léew
 grandma-ASP-*cà?*-eat-rice-ASP-ASP
 Grandma is going to eat rice right now.

Here again, the marker *cà?* introduces an imminent temporal span before the initial boundary. *léew* operates on the initial boundary. The other two markers *kamlaŋ* and *yùu* also operate on the very short span before the initial boundary.

5.2.3 Combination with an inceptive-stative state of affairs

Combinations with *yùu* plus inceptive-stative states of affairs are not possible (see section 5.1.2.). Thus sentences 51(b), (c) and (e) below are not possible. The combination of progressive plus *léew* in 51(d) is possible. This is due to the fact that *léew* and *kamlaŋ* do not refer to the same temporal unit. The progressive marker operates on the temporal phase introduced by the resultative verb *khûn* 'go up', while the marker *léew* expresses a change of state with the stative verb *rón* 'be hot'.

- (51) a. *náam rón khûn*.
 water-hot-up
 'The water is becoming hot.'
- b. Progressive + Continuative:
 **náam kamlaŋ rón khûn yùu*

- c. Continuative + *léew*:
* *náam rón khân yùu léew*
- d. Progressive + *léew*:
náam kamlaj rón khân léew.
water-ASP-hot-up-ASP
'The water's becoming
hot already'
- e. Progressive + Continuative +
léew:
* *náam kamlaj rón khân*
yùu léew
water-ASP-hot-up-ASP-ASP
In contrast to the following
example, this sentence is not
possible because of rule (c)
- f. Progressive + marker *cà?* +
Continuative + *léew*
náam kamlaj cà?
rón khân yùu léew
water-ASP-*cà?*-hot-up-ASP-ASP
'The water is getting hot.'

5.2.4 Combination with a gradually terminative state of affairs

Since *yùu* is not compatible with gradually terminative states of affairs (cf. section 5.1.2), sentences 52(b), 52(c), and 52(e) are not possible. In contrast to 51(d), 52(d) is ungrammatical. This is due to the fact that resultative verbs like *ʔòok* 'move out' combined with an action verb like *khít* 'think' do not seem to introduce a new phase as is the case with *khân* 'go up' with stative verbs as in 51(d) but rather highlight the terminal boundary. Thus, there is only one temporal boundary in 52(d), i.e., the terminal boundary, which cannot be operated on by two mutually exclusive markers.

- (52) a. *yaay khít ʔòok léew*
grandma-think-out-ASP
'Grandma found a solution.'
- b. Progressive + Continuative:
* *yaay kamlaj khít ʔòok*
yùu
Grandma-ASP-think-out-ASP
- c. Continuative + *léew*:
* *yaay khít ʔòok yùu léew*
Grandma-think-out-ASP-ASP
- d. Progressive + *léew*:
* *yaay kamlaj khít ʔòok*
léew.
grandma-ASP-think-out-ASP

'Grandma was finding a
solution [She was thinking].'
This sentence is not possible
although *ʔòok* sets a
terminative boundary for *léew*,
but rule (a) cannot be violated.
- e. Progressive + Continuative +
léew:
* *yaay kamlaj khít ʔòok*
yùu léew
Grandma-ASP-think-out-ASP-
ASP
This sentence is not possible
because of rule (c).
- f. Progressive + marker *cà?* +
Continuative + *léew*
yaay kamlaj cà? khít ʔòok
yùu léew
grandma-ASP-*cà?*-think-out-
ASP
'Grandma is close to find a
solution.'

In example (f) the marker *cà?* introduces a boundary before the terminative boundary *léew*. This allows a possible span for *kamlan* and *cà?* to interact with.

5.2.5 Combination with a totally terminative state of affairs :

Since an achievement verb with a totally terminative state of affairs does not co-occur with *kamlan* and *yùu*, sentence 53(b), (c), (d), (e) and (f) are not acceptable.

- (53) a. *khǎw taay léew*
he-die-ASP
'He died.'
- b. Progressive + Continuative:
**khǎw kamlan taay yùu*
He-ASP-die-ASP
- c. Continuative + *léew*:
**khǎw taay yùu léew*
He-die-ASP-ASP
- d. Progressive + *léew*:
**khǎw kamlan taay léew*
He-ASP-die-ASP-ASP
- e. Progressive + Continuative + *léew*:
**khǎw kamlan taay yùu léew*
He-ASP-die-ASP-ASP
- This sentence is not possible because of rule (c).
- f. Progressive + marker *cà?* + Continuative
**khǎw kamlan cà? taay*

yùu
He-ASP-*cà?*-die-ASP
He is close to die./
He is dying.

- g. Progressive + marker *cà?* + *léew*:
khǎw kamlan cà? taay léew
he-ASP-*cà?*-die-ASP
'He is going to die (anytime now.)'
- h. Progressive + marker *cà?* + Continuative + *léew*:
khǎw kamlan cà? taay yùu léew
he-ASP-*cà?*-die-ASP-ASP
'He is going to die any minute.'
- cà?* again establishes a temporal span by which the two aspect markers *kamlan* and *yùu* is possible

With achievement verbs like *rabàet* 'to explode' which allow the consecutive occurrences of totally terminative states of affairs, a combination of *kamlan* and *yùu* may be possible:

- (54) *pám námman kamlan rabàet yùu*
filling station-ASP-explode
'The filling station is exploding.'

The following table summarizes the possible combinations of aspect markers in different states of affairs presented above:

	State	Action	Inceptive- Stative	Gradually Terminative	Totally Terminative
<i>kamlaj</i> + <i>yùu</i>	+	+	-	-	-
<i>yùu</i> + <i>léew</i>	+	+	-	-	-
<i>kamlaj</i> + <i>léew</i>	-	-	+	-	-
<i>kamlaj</i> + <i>yùu</i> + <i>léew</i>	-	+	-	-	-
<i>kamlaj</i> + <i>cà?</i> + <i>yùu</i> + <i>léew</i>	+	+	+	+	+

Table 9. Summary of combinations of aspect markers

From the data presented in sections 5.2.1-5.2.5 and from Table 9 above we can draw out the following points:

1. If there are any two aspect markers involved, the following combinations are allowed:

- i) *kamlaj* + *yùu*
- ii) *yùu* + *léew*

The combination of *kamlaj* and *léew* is ungrammatical if only two aspect markers are involved. *cà?* as a boundary marker must be introduced. Aspect markers must always occur in the order indicated in i) and ii). While *kamlaj* is preverbal *yùu* and *léew* are postverbal.

2. The fact that *yùu* and *léew* can co-occur while *kamlaj* and *léew* are mutually exclusive points to an important difference between *yùu* and *kamlaj*. While both mark a time phase, *kamlaj* seems to convey progression at reference time (most naturally at the speech act moment), while *yùu* does not make any reference to a point in time. The marker *yùu* only conveys a continuous situation through time. Thus, *kamlaj* is not compatible with *léew* which highlights or sets up temporal boundaries. On the

other hand, *yùu* can be combined with *léew* as well as with *kamlaj*.

3. *kamlaj* _____ *léew* Example 51 (d) *nám kamlaj rón khùn léew* 'The water's becoming hot already' seems to contradict the mutual exclusiveness of *kamlaj* and *léew* as discussed in point 2 above. The sentence is possible because the two markers do not refer to the same temporal unit. The marker *kamlaj* operates on the phase introduced by *khùn* 'go up', the marker *léew* introduces an initial boundary and thus triggers an interpretation in terms of change of state.

4. When more than two aspect markers occur, *cà?* must be brought in. In our data, *kamlaj cà?*, *kamlaj cà?* _____ *yùu*, and *kamlaj cà?* _____ *yùu léew* seem all possible although *kamlaj cà?* _____ *yùu* without *léew* is of doubtful acceptability. In all these combinations, we can generalize this phenomenon by the following rule:

When marker *cà?* is used, temporal boundaries either initial or terminative, must be inferred. If *léew* as the boundary marker co-occurs, the imminent aspect

as the beginning of the state of affairs or the terminative state of affairs depending on the verb class, is present. If *léew* does not co-occur, the boundary is not focused, although implied. Thus, the imminent aspect is not present. We may say that with the combination of *kamlaj*, *yùu* and *léew* with *cà?* a preparation span of situation at the initial boundary or at the terminative boundary is introduced.

Following is the possible combination of *cà?* with the three aspectual markers to illustrate the mentioned points:

- (55) a. *khǎw cà? khûn ruabin*
he-*cà?*-ascend-plane
'He will board the plane.'
- b. *khǎw cà? khûn ruabin léew*
he-*cà?*-ascend-plane-ASP
'He is about to board the plane.'
- c. *khǎw kamlaj cà? khûn ruabin*
he-ASP-*cà?*-ascend-plane
'He is going to board the plane.'
- d. *khǎw kamlaj cà? khûn ruabin léew*
he-*cà?*-ascend-plane-ASP
He is about to enter the plane.
- e. *khǎw cà? khûn ruabin yùu léew*
he-*cà?*-ascend-plane-ASP-ASP
'He is about to enter the plan (he is closer to it than c.)'

- f. *khǎw kamlaj cà? khûn ruabin yùu phoo dii*
he-ASP-*cà?*-ascend-plane-ASP-
the very moment
'He is about to board the plane at the moment'
- g. *khǎw kamlaj cà? khûn ruabin léew*
he-ASP-*cà?*-ascend-plane-ASP
'He is about to board the plane.'
- h. *khǎw kamlaj cà? khûn ruabin yùu léew*
he-ASP-*cà?*-ascend-plane-ASP-ASP
'He is just about to board the plane.'

From the comparison of (55f) and (55g) and the unacceptable sentence

**khǎw cà? khûn ruabin yùu*
(he- *cà?*-ascend-plane-*yùu*)

one can see that the grammaticality of the marker *yùu* depends on the presence of *kamlaj*. Once *kamlaj* and *yùu* are combined, the occurrence of these two markers together with *léew* is possible. The following schema visualizes the aspectual markers *kamlaj*, *yùu*, and *léew*.

Figure 1. Schema of combinations of aspectual markers

5. It should be added that the sequence *yùu léew* does not only have aspectual meaning. It also conveys pragmatic meaning against a wrong presupposition. The sentence 50(c) *yaay kin khâaw yùu léew* [grandma eat rice *yùu léew*] can also be interpreted as a reaction against the wrong presupposition that grandmother did not eat. In everyday conversation, *yùu léew* is a slang word with the meaning of 'of course, certainly'. If *léew* highlights the initial boundary of the action state of affairs 'eat' in 50(c) a pragmatic reanalysis of this fact in terms of a confirmation that the action actually took place, seems plausible. In addition, this pragmatic interpretation is further reinforced by the continuative marker *yùu*. The following is an example of the use of *yùu léew* as a slang word:

(56) *khun cà? pay Chiangmày kàp raw máy? – yùu léew*

you-FUT-go-Chiangmai-with-we-Q-of course

'Are you going to Chiangmai with us? – Of course!'

Conclusion

In the present paper, we have tried to analyse aspect in Thai in terms of a selection-theory approach to see whether it can give a clearer explanation of aspect. We found the following:

1. An analysis of aspect in Thai can be clearer explained if an account for the temporal boundaries is taken particularly, the initial one when inceptive-state state of affairs is to be explained. The four state of affairs as discussed in Vendler (1967) and Dowty (1979) do not seem to fully account for aspect marking in Thai.

2. Aspect markers do not only interact with lexically determined temporal boundaries. It is necessary to look at the temporal structure of the entire state of affairs with temporal strategies some of which we have dealt with, and with aspect markers, three of which we have studied in the article. It is seen that the temporal strategies which add information on the temporal structure of a state of affairs beyond the inherent properties of the verbs merit further studies.

3. In Thai, aspect markers can be used cumulatively. This is unusual in aspect languages with a binary aspect system of the perfective vs. imperfective type, in which aspect markers are complementary.

If there is cumulative use of aspect markers, there is a hierarchy of dominance as explained in Figure 1 in section 5.2.5. Here, again a deeper research is needed especially with other aspect markers than *kamlag*, *yùu léew* and *cà?* treated in this article.

4. To finish with our outlook, we would like to point out that it is typologically remarkable that a marker like *cà?* can establish a temporal boundary on its own which then interacts with other aspectual markers. The occurrence of *cà?* with a boundary aspect marker *léew* shows that in Thai, boundaries of a state of affairs are highly focussed. We do not know of any other language in which this is possible. But this needs a lot more research.

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