THE CONCEPT OF TIME AND ITS EXPRESSION IN THE TANDROY DIALECT OF MALAGASY

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ABSTRACT This paper investigates the Tandroy concept of time, focusing on their ways of recognizing time. The Tandroy language is a Malagasy dialect, spoken in the southern part of Madagascar, that belongs to the Austronesian family. The Tandroy live in a non-literate society that traditionally puts little value on written materials. They educate their children, inherit their traditions, and impart their wisdom through oral traditions passed down from generation to generation. My research on the Tandroy reveals that its speakers keep track of time according to natural phenomena such as diurnal rotation, animal behaviors, agricultural cycles, and the daily routines of their society. For example, *Mihilaña andro*, which literally means 'The sun declines', indicates approximately one o'clock in the afternoon, and such expressions, used in conversation when talking about time, can be found for all the hours of the day, corresponding roughly to the 24 hours as counted in modern time. This way of conceiving of and expressing time is used in everyday life and also appears in their folktales.

Key Words: Malagasy; Tandroy; Time expressions; Traditional calendar.

INTRODUCTION

What is time? On the one hand, time is a part of our everyday consciousness. On the other hand, it is a great mystery in that we cannot touch or access it directly. The philosophical question of 'What is time?' has therefore been at the center of attention of every scientific field in recorded history.

Physical time is the notion that we regard as a time series a line that stretches from our ancient ancestors to our future descendants. From this viewpoint, our existence today is historically just a single dot on the timeline, which continues infinitely from the past into the future.

Biological time, from one particular perspective, is the notion that we regard our course of life as an incarnation, which is based on life phenomena such as birth, growth, deterioration, death, lying in a tomb, and then repeating the process again after being reincarnated in another body. From this viewpoint, life may be considered to be a circular ring, and we exist at a point on this ring.

Language functions as a medium to structuralize time, as all languages have a means by which to describe time references and temporal relations. References to this concept differ according to people's lifestyles, natural environments, social systems, historical backgrounds, etc. Although time is untouchable, we can sense its current at every moment.

In this paper, I examine the concept of time of the Tandroy who are an agricultural and pastoral people in the southern part of Madagascar. After briefly describing the Tandroy grammatical tenses and temporal adverbs, I will discuss

the system of counting the hours, days, months, and seasons. I will also describe traditional child-naming practices. The data analyzed in this study are drawn from field research that I conducted in Madagascar intermittently from 2006 to 2008.⁽¹⁾

THE TANDROY DIALECT AND ITS SPEAKERS

Tandroy is a dialect of Malagasy, which belongs to the Western Indonesian subgroup of Austronesian languages (Vérin et al., 1969). It has approximately 500,000 speakers in Madagascar. The Tandroy people maintain a non-literate culture. The Tandroy, whose ethnic name means 'people of the thorn bush', live in the southernmost region of Madagascar (see Fig. 1), called Androy, the 'place of the thorn bush'.

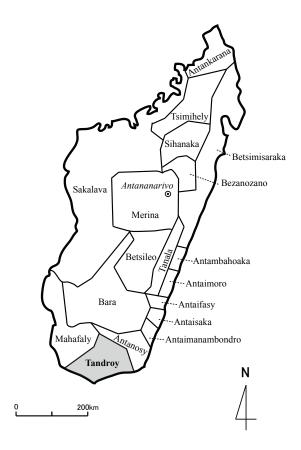


Fig. 1. Malagasy dialects and distribution. Source: Dahl (1951), modified by author.

OVERVIEW OF THE MAJOR FEATURES OF THE TANDROY DIALECT

I. Sounds and Orthography

The following consonant sounds appear in the phonetic inventory of Tandroy. The orthography used in this paper follows standard Malagasy conventions. There are 31 consonants, p [p], b [b], t [t], d [d], k [k], g [g], ? [?], mp [mp], mb [mb], nt [nt], nd [nd], nk [nk], ng [ng], f [f], v [v], s [s], z [z], h [h], r [r], ts [ts], j [dʒ], tr [t], dr [d], nts [nts], nj [nj], ntr [nt], ndr [nd], m [m], n [n], ñ [n], l [l], and 4 vowels, a [a], e [e], i [i], o [u]. The word-final [i] is spelled y in the official orthography. ô [o] appears only in borrowed words such as $radi\hat{o}$ or vocative interjections such as ' \hat{o} !' An apostrophe (') indicates that the word-final vowel of the precedent word is deleted. In this paper, the following abbreviations are used in the examples.

ACT active verb formative
ADJ adjective formative
PRE present tense
PST past tense
FUT future tense
CAU causative
IMP imperative

II. Basic Morphosyntactic Characteristics of Tandroy

Before we proceed to a closer examination of the concept of time in Tandroy, some basic typological characteristics of Malagasy⁽²⁾ should be noted in order to better understand the discussion in this paper. These characteristics are listed in (1) to (4). The examples are from Tandroy, the rules of which appear in many Malagasy dialects, although word-final syllables, lexical use, and the types of determiners are different.

- (1) Basic word formation consists of a root with affixes, which are either prefixes, suffixes, infixes, or circumfixes.
 - a. prefix: mi- (active verb formative) + teny 'language' > miteny 'speak'
 - b. suffix: vono 'kill' + -e (passive verb formative) > vonoe 'be killed'
 - c. infix: io 'this' + -re- (plural marker) > ireo 'these'
 - d. circumfix: *sotro* 'spoon' + *i--ana* (relative verb formative) > *isotroana* 'that I drink'
- (2) Right-branching structure

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foto ty faty ndaty
origin (of) the death human
'origin of human death'
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(3) VOS structure (verb-initial and subject-final)

Miteny teny gasy raho.

speak language Malagasy I

'I speak the Malagasy language.'

(4) Predicate-initial structure

Mpianatse raho. student I

'I am a student.'

THE CONCEPT OF TIME IN TANDROY

I. Grammatical Tense Markers

Before we discuss the concept of time, we must review the Tandroy grammatical tense markers. This language distinguishes three tenses: past, present, and future. Verbs and adverbs realize these tenses with prefixes. The past and future tense markers, n- and h- respectively, replace word-initial m-, which is the present tense marker for active verbs. This is illustrated in example (5).

(5) a. Mipay añombe raho.

M-i-pay añombe raho.
PRE-ACT-search.for cattle
'I search for cattle.'

b. Nipay añombe raho.

N-i-pay añombe raho.
PST-ACT-search.for cattle
'I searched for cattle.'

c. Hipay añombe raho.

H-i-pay añombe raho.
FUT-ACT-search.for cattle
'I will search for cattle.'

One of the characteristics of Malagasy is that locative adverbs also distinguish two tenses: present/future and past. The former has no specific mark as in (6a) and the latter is indicated by the prefix t- as in (6b). Although heto in (6c), the form with the future tense marker h-, is grammatically correct, this form sounds slightly strange to the native speaker and is preferably replaced by eto, the present form, to express the future event, as in (6a). Notice that the locative interrogative aia 'where' is also prefixed by the past tense marker t-, as shown in (7).

(6) a. Eto misy seza.

φ-Eto m-isy seza. PRE-here PRE-exist chair

- 1) 'A chair is here. (Here is a chair.)'
- 2) 'A chair will be here.

(Someone will bring a chair and it will arrive here soon.)'

b. Teto nisy seza.

T-eto n-isy seza.
PST-here PST-exist chair

'A chair was here. (Here was a chair.)'

c. Heto hisy seza.

H-eto h-isy seza. FUT-here FUT-exist chair 'A chair will be here.'

(7) a. Mandeha aia?

M-an-leha φ -aia?

PRE-ACT-go PRE/FUT-where

'Where are (you) going? Where do (you) go?'

b. Boake aia?

Boake t-aia? from PST-where 'Where were (you) from?'

II. Temporal Adverbs

The temporal reference point of this language is the time at which a sentence is uttered. The moment of utterance (i.e., now) is used as a base point, and temporal adverbs such as 'today' and 'tonight' are expressed in two ways, either past or future tense. For example, 'today' has two forms, *androañe* and *añito*. *Androañe* comes before (i)zao "now" and añito comes after (i)za, as illustrated in (8). The timeline as well as the temporal adverbs in Tandroy are shown in Fig. 2.

- (8) a. Tena n-angatsiaka androañe. very PST-cold today 'It was very cold today.'
 - b. Miasa raho añito. work I today 'I work today (from now on).'

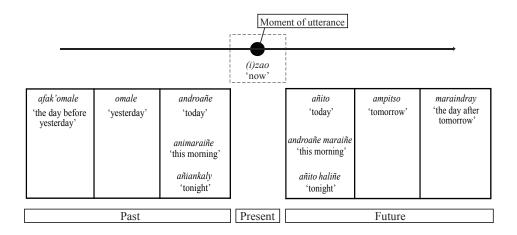


Fig. 2. Timeline.

With regard to this distinction, in the Merina dialect of Malagasy, which is spoken in and around the capital, there are two interrogatives: *oviana* 'when' and *rahoviana* 'when' to ask about past and future events, respectively.

III. The Tandroy Concept of Time

I will briefly describe their way of living in order to enable an understanding of their concept of time. Located under the Tropic of Capricorn, the area in which the Tandroy live has a dry climate and suffers from chronic water shortages caused by droughts. It takes one or two days for residents to go and fetch a day's supply of water from a well. The Tandroy are an agricultural and pastoral people: they place special value on cattle and cultivate mainly beans and corn. Fig. 3 shows an approximate residential area of the Tandroy.

Without electricity or a means of a modern communication, how do the Tandroy arrange their appointments or meetings? First, a solar clock is used as a means of time management. However, solar clocks are limited in some places and are not available to every family. My research revealed that Tandroy society counts time according to natural phenomena and daily routines; that is, they apply physical and biological time. The expressions in (9) are used and shared as common understandings in the Tandroy speech community. These expressions are examples from speakers in Ambovombe (see Fig. 3). One sentence using this kind of time expression is given in (10). While there are two expressions to indicate the time at two o'clock and four o'clock in the morning, there are no expressions for seven o'clock and eleven o'clock in the morning or for two o'clock in the afternoon, and the same expression is used for both three and four o'clock in the afternoon.

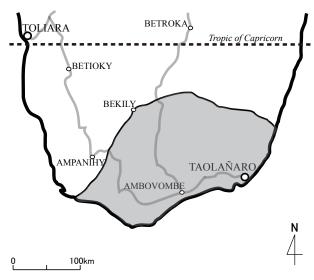


Fig. 3. Residential area of the Tandroy (Area highlighted in gray). Source: Valverde and Honoré (2004), modified by author.

(9) 00h 1) Misasak'ale Misasake-ale middle-night 'midnight'

2) Matokalembey Matoka-ale-bey middle-night-very 'midnight'

01h Mañeno sahoñe.

M-an-teno sahoñe.

PRE-ACT-croak frog
'A frog croaks.'

02h 1) Mañeno akoho voaloha?e.

M-an-teno akoho voaloha?e. PRE-ACT-croak cock first time 'A cock crows for the first time.'

2) Mañeno akoho mavande.

M-an-teno akoho m-an-vande.
PRE-ACT-croak cock PRE-ACT-tell.a.lie
'A cock lies.'

N.B. The verb *mavande* 'tell a lie' is used here as a substantive.

03h Mañeno akoho faharo?e. M-an-teno akoho faharo?e. PRE-ACT-croak cock second time 'A cock crows for the second time.' 04h 1) Tera-panjiry. bear-Fanjiry (name of a star, probably the Lucifer) 'Fanjiry arises in the sky.' 2) Mañeno akoho fahatelo. (fañinteloñe can be used instead of fahatelo.) M-an-teno akoho fahatelo PRE-ACT-croak cock third time. 'Cock crows for the third time.' 05h Mangararak'atiñana. M-an-harake atiñana. PRE-ACT-lighten west 'The west side is lightening. (Lit.)' N.B. This expression is only used for the first light of the day. 06h Mifoha ndaty. M-i-foha ndaty. PRE-ACT-wake.up man 'Man wakes up.' 07h 08h Mivavatse añombe. *M-i-vavatse* añombe. PRE-ACT-go.out cattle 'The cattle go for a walk.' 09h Mafana voho. Ma-fana voho. ADJ-hot back 'One's back is hot.' 10h Mitroatse mpiava. M-i-troatse mpiava. PRE-ACT-take.a.rest farmer

'Farmers take a rest.'

11h

12h *Mandia talinjo*.

M-an-lia talinjo. PRE-ACT-step shade

'(Someone) steps on (his) shade.'

N.B. The subject is omitted in this sentence.

13h *Mihilaña andro*.

M-i-hilaña andro.

PRE-ACT-decline the.sun

'The sun declines.'

14h —

15h Mandisa ampela.

M-an-lisa ampela.

PRE-ACT-grind (the food) woman

'Women grind the food.'

16h *Mandisa ampela*.

M-an-lisa ampela.

PRE-ACT-grind woman

'Women grind the food.'

17h Avy añombe.

come cattle

'Cattle return home.'

18h *Mizilike añombe*.

M-i-zilike añombe.

PRE-ACT-enter cattle

'Cattle enter the corrals.'

19h *Mihinañe ty ndaty*.

M-i-hinañe ty ndaty.

PRE-ACT-eat the man

'People eat the meal.'

20h Mandafe tihy ndaty.

M-an-lafe tihy ndaty.

PRE-ACT-spread mat man

'A man spreads the mat.'

21h Misaondroro.

M-i-saondroro.

PRE-ACT-fall.asleep

'sleeping'

Mivalike ndaty. 22h M-i-valike ndaty. PRE-ACT-roll.over man 'A man rolls over.'

23h Etsandroro. fall.into.deep.sleep 'Falling into deep sleep.'

(10) Misv fivoriañe-ntika naho mihilaña andro.

M-isv fivoriañe-ntika naho mihilaña andro. PRE-exist conference-our when 13h 'There is our meeting at one o'clock.'

According to an informant, given the information in (10), people gather at the meeting place, and the meeting is held at approximately one o'clock without any problems. Section IV shows the use of the concept of time in folktales.

This way of measuring time using celestial motion or natural phenomena may closely relate to the fact that, instead of using subjective expressions such as 'right' or 'left', the Tandroy use objective directions such as 'north' or 'south' to locate an object, even if it is very near to the speaker. A detailed survey of directions and space terms is a future topic of my research.

IV. The Concept of Time Observed in Folktales

Andrianañahare nandranto

Lehe nandranto ty Andrianañahare, nibabababa ty oselahy. Lehe n-an-ranto Andrianañahare, n-i-babababa ty selahy. tvthen PST-ACT-sleep.with.girl the God PST-ACT-cry the goat

Nifoha ty Andrianañahare am'i sahe i oselahy ?y, nañavelo.

Andrianañahare N-i-foha tv am'i sahe PST-ACT-wake.up the God at.the copulation oselahy *2у, n-an-havelo*.

the goat the PST-ACT-go.out

Le mbe matokalembey. Ie nibalike ka reke finoha i akoho

matokalembey. mbe Le midnight then but

Ie. *n-i-balike* finoha akoho ka reke when ACT-PST-roll.over (interjection) he waking.up the cock

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'Izaho rañandria', hoe ty akoho, 'ehe mikekeo am'i fanampoñe y raho',
          rañandria'.
                                       akoho.
  'Izaho
                        hoe
                                tv
          Sir
                        said
                                the
                                       cock
   me
  'ehe
         m-i-kekeo
                         am'i fanampoñe
                                                    raho'.
                         with.the.intention
   ah
         PRE-ACT-cry
                                              the
mbe tsy ie. 'kekeon'akoholahy mavande', hoe re, i fanampoñe ?y.
                     'kekeon' akoholahy
                                              m-an-vande'
  mbe
        tsv
               ie.
  but
                     cock-a-doodle-doo.cock
                                              PRE-ACT-lie
        not
               yes
  hoe
        re.
                    fanampoñe
                                 2ν.
  said
                    intention
                                 the
        he
              the
Mikekeo raho añivo eo, mbe tsy ie. 'Ie ty fañinteloñe', hoe re ama....
  M-i-kekeo
                  raho
                          añivo
                                     eo.
                                             mbe
                                                     tsy
                                                              ie.
                          middle
  PRE-ACT-cry
                                     here
                                             but
                                                     not
                                                             yes
  'Ie
        tv
              fañinteloñe'.
                              hoe
                                      re
                                              ama....
  then the
              third time
                              said
                                              well...
                                      he
Vaho ie. Mifohaza rehe mpanjaka naho am'izay.
              M-i-foha-za
                                       rehe
                                              mpanjaka
                                                                  am'izav.
  Vaho ie.
                                                          naho
              PRE-ACT-wake.up-IMP
                                               king
  well ves
                                       you
                                                          then
                                                                  now
Izao ahavia o akoho o an-kazomanga ey o.
  Izao
                 aha-via
                              0
                                    akoho
                                                an-kazomanga
                                           0
                                                                ev
                                                                       0.
  that's because CAU-come
                              the
                                   cock
                                                at-Hazomanga
                                           the
                                                                there the
Tsy nahavia i ose an-kazomanga ey o, namoha
  Tsv n-aha-avia
                           ose an-kazomanga ey
                      i
                                                      0.
                                                           n-an-foha
  not PST-CAU-come the goat at-Hazomanga there the, PST-ACT-wake.up
an'Andrianañahare matokalembey ama t'ie nandranto.
  an'Andrianañahare
                      matokalembey
                                       ama t'ie
                                                   n-an-ranto.
                                                   PST-ACT-sleep.with.girl
  at.God
                      midnight
                                       while
```

God Looked for a Girl

Once upon a time, God was sleeping with a girl. A goat bleated. God awoke to the sound of copulation and went out. It was, however, **midnight**. When he rolled over in his sleep, he woke up because of the cry of the goat.

'It is me, sir,' the cock said, 'I cried cock-a-doodle-doo intentionally, but it is not the right time (to wake up).' 'The cock lies (It is two o'clock),' he said with kind intention. 'I cried at midnight, but it was not the truth.' The third time (at four o'clock), the cock said, 'It is the truth. It is time to wake up. Sir, God, please wake up.' Because of this, it is permitted to bring the cock to the *Hazomanga* (a kind of purification in the local religion), but not the goat, because it disturbed God when he was sleeping with a girl at midnight.

The goat in the story disturbed the sleep of God, and it made God angry. The cock, however, kindly informed God of the time. Since this event, the goat has been prohibited from *Hazomanga*, but the cock and cow are admitted. In practical social life, it is a living and well-known custom for the Tandroy to bring mostly cows as well as cocks to the ritual, and then purify themselves with the blood of the animals before *Hazomanga* when, for example, they suffer from disease or break a taboo.

The boldface words highlight the use of time expressions. This folktale is a reconstruction based on the collection of the French pastor Benolo (1989). I conducted the translation and interpretation of the folktale with the help of a native Tandroy speaker. The expressions used in this folktale are slightly different from the time expressions shown in (9), although they have the same meaning. For example, *Mañeno akoho mavande*, 'A cock lies,' in (9), which indicates two o'clock, is expressed as *kekeon'akoholahy mavande*, literally 'cock-a-doodle-doo of the cock lies,' in the folktales due to the Tandroy dialectal variations. It should also be noted that some of the expressions, such as *Maneno sahoñe*, 'Frog croaks (one o'clock in the morning),' is only used in areas where there is a body of water.

When I first heard these time expressions, I was not sure whether they were still used to describe the 24 hours, especially after watches and clocks were introduced to the region. However, the interviews that I conducted in the field confirmed that the Tandroy people in the isolated areas certainly use these expressions with some slight variations to indicate the time. The expressions are unique to Tandroy residential areas and are not comprehensible in other ethnic regions.

V. Days, Months, Seasons, and Child-naming Practices

1. Days of the week

The Tandroy days of the week, summarized in Table 1, resort to terms borrowed from Arabic. In daily conversation, French words are often used in urban areas. The Arabic article al- appears in standard Malagasy (e.g., *alatsinainy, alarobia, alakamisy*); however, it is often dropped in the Tandroy pronunciation of words.

Days	Expression	
Monday	tinainy	
Tuesday	talata	
Wednesday	larobia	
Thursday	kamisy	
Friday	joma	
Saturday	sabotse	
Sunday	lahady	

Table 1. Days of the week

2. Months

The majority of the lexical nomenclature for months is of Sanskrit origin, reportedly introduced via old Javanese. Each Malagasy dialect has its own expression that corresponds to the agricultural cycle in their society in a year. Therefore, although the same expression is observed, the terms correspond to different months among the dialects depending on the cultivation period of the region based on the natural or geographical conditions of the society. Additionally, as the division of the year largely depends on the cultivation cycle, and farming and hunting comprise the basis of the Tandroy society, as mentioned earlier, the duration of each month is not absolute. Valasira, January in Tandroy, means the first month of the year. This word refers to March to April in Tanala (Beaujard, 1998). Hatsiha corresponds to February. Hiahia, which corresponds to March, is a reduplicated form of hia, 'infertile, sterile'; thus, it may be assumed that this month is not suitable for harvest. Volamaka and Tatakampemba correspond to April. Tatakampemba means 'to cut the grain of millet'. Saka- in Sakamasay, used for 'June', and Sakavey, used for 'July', indicates 'matured'. Volambita for August means 'the last month', which indicates the end of the period of agricultural cultivation. Smells are also relevant to the terms for months: Asaramanty, 'September', and Asaramañitse, 'October', mean bad- and good-smelling, respectively. Vatravatra for November means a way of arriving with violence or a downpour of rain. Lastly, Safary corresponds to December, but its original meaning is unknown. The Tandroy traditional terms for months, that is, the Sanskrit loanwords via old Javanese, are summarized in Table 2.

English borrowings for months (e.g., *Janoary* and *Febroary* in Malagasy official orthography) are used in standard Malagasy to indicate the 12 months of a year of the Gregorian calendar, but their use is limited to official newspapers or radio transmissions. In daily conversation, French words are largely employed to refer to months or dates.

Table 2. Months

Month	Expression
January	valasira
February	hatsiha
March	hiahia
April	volamaka, tatakampemba
May	volantatake
June	sakamasay
July	sakavey
August	volambita
September	asaramanty
October	asaramañitse
November	vatravatra
December	safary

Table 3. Seasons

Season	Expression	
Rainy season	asara	
Dry season	faosa	
Spring	lohataoñe	
Summer	faosa	
Autumn	_	
Winter	asotry	

3. Seasons

There are no exact terms that refer to seasons. In Tandroy society, the rainy season *asara* or dry season *faosa* and the agricultural cycle, as mentioned above, are the main seasons of the year. *Asotry*, 'winter', is of Sanskrit origin, which is an important factor in demonstrating the historical continuity between Indonesia and Madagascar (Dahl, 1951). Notice that although *asotry* refers to September in Tanosy (the neighboring dialect of Tandroy), it refers to January in Tanala (Beaujard, 1998), a dialect spoken in Southeast. *Lohataoñe*, literally 'spring', means 'the beginning of the year'. The terms for seasons are summarized in Table 3. Note that the rainy season lasts from approximately November to April, and the dry season, from May to October.

CONCLUDING REMARKS

This paper examines the concept of time in the Tandroy speech community, which has maintained the concept of traditional social time from ancient times while, at the same time, being influenced by modern information technology. Biological time is applied in the living culture, and time expressions such as those for keeping track of time and referring to months and seasons project their agricultural cycle. With the introduction of modern technology, increasing numbers of Tandroy people have mobile phones and check the physical time. However, it is true that the people living in isolated areas, as well as those who have moved to urban areas but continue to maintain their traditional lifestyles, still use time expressions that correspond to the 24 hours of a day. This article presents primary data of time expressions in the Tandroy dialect of Malagasy from a sociocultural viewpoint.

NOTES

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- (2) See Keenan & Polinsky (1998) and Rasoloson & Rubino (2005) for more details.
- (3) *Hazomanga*, which literally means 'blue tree' (*hazo* 'tree,' *manga* 'blue'), is a traditional religion of the Tandroy. Each clan has its own sacred wooden pole where the members purify themselves or perform confessions.

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