

# Argument marking in Santali\*

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## 1. Introduction

Among the Munda languages, Santali<sup>1</sup> has the most elaborate verb morphology. Besides various types of argument marking the verb is inflected for seven tense/aspect/mood (=TAM) categories of which the markers have two shapes, one for transitive and one for intransitive use. In addition several derivational processes can apply to the stem, such as the marking of reciprocal or intensive.<sup>2</sup>

After a short overview of Santali verb morphology the discussion will be limited to the marking of arguments<sup>3</sup> on the verb. Santali arguments can appear as pronominal affixes in various ways. The table in (1) gives an overview:

### (1) Types of argument marking

Subject	Ø	dal-a-n	'I will strike'
Direct object	Ø	dal-in-a-e	'he will strike me'

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<sup>1</sup>Santali belongs to the Kherwari group of northern Munda languages (together with Mundari, Ho and some other dialects or languages). The number of speakers is 4.3 million (according to the 1991 census, cf. Ghosh 1994:3), most of them living in Bihar, West-Bengal and Orissa.

<sup>2</sup>Santali morpho-semantics has been described by Bodding (1929a) and more thoroughly in Bodding (1929b). For paradigms see Skresfrud (1873), for a short introduction McPhail (1983) and for a recent treatment of the morphology Ghosh (1994). The data described here is taken from these sources; additionally I will cite examples from Bodding's huge Santali dictionary (1929-36) and from Santali folk tales (Bodding 1925). I use the following abbreviations: Bo = Bodding (1929a), Bo2 = Bodding (1929b), folktales = Bodding's folktales (1925), dictionary = Bodding's dictionary (1929-36), McP = McPhail (1983), Sk = Skresfrud (1873). Following Bodding's orthography I had to slightly adapt citations from Skresfrud (1873) and Grierson (1908:IV).

<sup>3</sup>Unless further specified, the term "argument" includes both core (i.e. subject and object) and peripheral arguments (oblique objects).

Concerned object    -ta-    dal-ti-*n*-a-e<sup>4</sup>    'he will strike mine'

A fourth possibility involves a separate conjugation paradigm, that interacts with the TAM system in an intriguing way.

Applicative    -a-    dal-a-*n*-a-e    'he will strike for me'

To further clarify the Santali data, we will have a look at two languages in the neighbourhood: the Indo-Aryan language Maithili, spoken in Bihar and Nepal, and the Tibeto-Burman language Hayu in Nepal.

## 2. Overview of Santali verb morphology

Santali verb morphology is of strong agglutinating character. There are various slots which are filled with person or TAM markers without fusion (one of the few exceptions is the combination of the possessor suffix -*ta* + *n* (1s object) which yields -*tin*). The following scheme reflects the rough sequence of affixes:

### (2) Affix order

stem + TAM + pronoun (DO or dative) (+IPFV) + POSS+ pronoun (possessor) + FIN + pronoun (subject)

The first slot is for pronouns referring either to the direct object or to the dative<sup>5</sup>; both can not be marked at the same time. The second slot contains possessor pronouns and the final position is for subject pronouns. The shape of the affixes is the same in all three slots. They are shown in (3):

### (3) Pronominal affixes<sup>6</sup>

	singular	dual excl incl	plural excl incl
1	- <i>n</i>	- <i>lin</i> - <i>lan</i>	- <i>le</i> - <i>bon</i>
2	- <i>m</i>	- <i>ben</i>	- <i>pe</i>
3 anim	- <i>e</i>	- <i>kin</i>	- <i>ko</i>
3 inan	- <i>k'</i>		

In combination with a prefix *a-* they are all used as free personal pronouns, e.g. *am* 'you (sg.)', *ape* 'you (pl.)' (besides the two exceptions *ijn* 'I' and *ac* 'he').

<sup>4</sup>The possessor affix -*ta* has the variant -*ti* when followed by palatal /*ɲ*/ 1s (cf. Mundari *tain* (dictionary V.396)).

<sup>5</sup>The term "dative" is used to subsume the functions "goal", "beneficiary", and "direction" (see 6.1).

<sup>6</sup>The two variants -*ijn* 1s and -*me* 2s are used for direct objects.

Pronominal reference is restricted to animate beings; with one exception: There is one affix for inanimate objects, *-k'*, as indicated in Table (3). It appears only in the applicative construction.

The three functions subject, direct object and dative share an interesting characteristic: A coreferential noun in the same clause is not marked for case. In other words, nouns with case suffixes are not resumed by pronominal affixes on the verb.

In order to understand the examples, a short look at the TAM system is necessary. Santali distinguishes two sets of TAM markers: one appears with verbs in transitive function, the other one with verbs in intransitive function.

#### (4) Tense / aspect / mood marker<sup>7</sup>

	transitive set	intransitive set
Future	$\emptyset$	-ok'
Present	-et' <sup>8</sup> (-kan) <sup>9</sup>	-ok' -kan
Past1	-ket'	-en
Past2	-let'	-len
Perfect	-akat'	-akan
Optative	-ke	-k-ok'
Conditional	-le	-len

### 3. Subject pronominal suffixes

The subject pronoun occupies the final position in the verb form, or, very frequently, it is attached to the word that immediately precedes the verb, cf. (5):<sup>10</sup>

- (5) a. orak'-ip      nel-a.      b. orak' nel-a-ŋ.  
      house-1sS    see-FIN       house see-FIN-1sS  
      'I will see the house.'       'I will see the house.' (McP 30)

According to McPhail (1957:30) (5a) is more common than (5b).

The term "subject" is justified, since the agent of a transitive verb (6a) and the single argument of an intransitive verb (6b) are coded in the same way:

<sup>7</sup>The terms for the various TAM categories are of preliminary character; their exact function has yet to be specified.

<sup>8</sup>The transitivity marker *-t'* changes to *-d* before pronominal suffixes with initial vowel.

<sup>9</sup>Verbs in transitive use distinguish two present tenses, one with a progressive reading (with *-kan*) and another one with habitual reading (without *-kan*).

<sup>10</sup>The subject pronouns attached to the preceding word will be written as suffixes, as it is done by all previous writers on Santali. This is confirmed by morphophonological alternations (e.g. when the preceding word ends in *u* or *ə*, *e* (3s) is modified to *i*: *guru-i nela* 'the guru will see') and stress rules (e.g. normally diphthongs are stressed, but diphthongs arising through suffixation of the pronoun *-e* (3s) do not attract stress: *'ado* 'then' + *-e* (3s) -> *'ade* 'then he' (Bodding 1922:136)).

- (6) a. *bəbəric'-ko dal-ked-e-a.*  
 terribly-3pS strike-PST1:TR-3sO-FIN  
 'They beat him terribly.' (Bo 24)
- b. *noa ato-khən-ko nīr-en-a.*  
 this village-ABL-3pS emigrate-PST1:ITR-FIN  
 'They emigrated from this village.' (sd IV.436)

#### 4. Pronominal suffixes in direct object function

Animate direct objects are expressed by pronouns affixed to the verb. Their position is after the TAM marker, but before the imperfective marker *-kan*. They are found with all TAM categories.

The object pronoun denotes various semantic roles: 1) the patient of an action, 2) the source or 3) the experiencer.

Example (7) and (8) illustrate the use as patient. This is the most frequent function.

- (7) *idi-me-a-e.*  
 take-2sO-FIN-3sS  
 'He will take you along with him.' (Bo 31)
- (8) *ere-ket'-le-a-kin.*  
 deceive-PST1:TR-1pO-FIN-3dS  
 'They (two) deceived us.' (Bo 31)

In addition the object pronoun can express source:

- (9) *ɽanga-e rēc'-ked-ɽn-a.*  
 axe-3sS take-PST1:TR-1sO-FIN  
 'He took the axe from me.' (Sk 366)

The next example shows an experiencer:

- (10) *reŋgec'-ed-ɽn-kan-a, daka em-a-n-pe.*  
 be\_hungry-PRS:TR-1sO-IPFV-FIN food give-APPL-1sO-2p  
 'I am hungry, give me food.' (dictionary V.73)

Other verbs which behave in a similar way are "be thirsty" or "be tasty". However, this construction is not so frequent; another way to express the experiencer role is by means of the intransitive tense markers (here marked by *-ok'*, which makes a verb intransitive and occurs in the Future and in the Present):

- (11) *ruə-k'-kan-a-e, ba-e suk-ok'-kan-a.*  
 be\_ill-ITR-IPFV-FIN-3sS NEG-3sS be\_at\_ease-ITR-IPFV-FIN  
 'He is constantly ill, he is not at ease.' (dictionary V.370)

Animate objects, like *bəhu* 'wife' in (12), are always marked as pronominal affixes on the verb, but not inanimate objects, like *daka* 'rice' in (13).

- (12) *bəhu-i*                      *əgu-ked-e-a*.  
 wife-3sS                      bring-PST1:TR-3sO-FIN  
 'He brought a wife.' (dictionary I.112)<sup>11</sup>

- (13) *daka-ko*                      *jəm-a*.  
 rice-3pS                      eat-FIN  
 'They eat rice.' (Bo2 197)

## 5. Pronominal suffixes in concerned object function

### 5.1 *Santali*

The Concerned Object function is expressed by the possessor suffix *-ta* on the verb, preceding the pronominal suffix. The affix *-ta* + pronominal suffix is placed after the tense marker and after (rarely before) the imperfective marker *-kan*. It is found with all TAM categories. To begin with, a few examples shall illustrate its use:

- (14) *həpən-e*                      *həc'-en-ti-ŋ-a*.  
 son-3sS                      come-PST1:ITR-POSS-1s-FIN  
 'My son has come.' (McP 20)

- (15) *nahel*                      *idi-ti-ŋ-me*.  
 plough                      take-POSS-1s-2s:IMP  
 'Take away my plough.' (McP 20)

- (16) *in-ge*                      *khajna-ŋ*                      *calao-ket'-ta-ko-a*.  
 I-FOC                      rent-1sS                      pay-PST1:TR-POSS-3p-FIN  
 'I paid their rent for them (lit. I paid their rent).' (dictionary III.457)

The person marked by *-ta* on the verb is concerned by the situation described by the clause (= Concerned Object).<sup>12</sup> It can have beneficiary meaning as in (16) above. Typically it denotes the possessor of a core argument in the clause at the same time. By contrast, the possessor of peripheral arguments cannot be resumed on the verb; consider (17) where the possessed noun *həŋmə* 'body' is marked for locative

<sup>11</sup>The same sentence can equally well be translated as 'the wife brought him', provided that the context allows this.

<sup>12</sup>Compare the "dativus ethicus" in German, e.g. *dass du mir das ja nicht vergisst!* 'you must not forget that, I am concerned about it', where the Dative expresses that the referent is concerned by the action. However in German this meaning appears only with first person pronouns and only in sentences with exclamatory character (Draye 1996:183). Another language where the function of Concerned Object is marked in a rather consistent way is the South American language Mapudungun (Sala 1992:131ff). Compare also a similar phenomenon in Choctaw (a Muskogean language in North America), called "possessor-raising" by Davies (1986:46).

and is peripheral, so that the verb form does not express the possessor (which would be expressed by *janam-en-ta-e-a*).

- (17)    *ado*        *uni*        *rəni-ak'*        *hoɾmo-re*        *rəg*  
          then      this      queen-GEN:INAN      body-LOC      sickness
- bighin-ge*        *janam-en-a.*  
          disease-FOC      come\_up-PST1:ITR-FIN  
          'And several diseases broke out in the queen's body.' (folktales II.4)

The affix *-ta* occurs with nouns as well, but not obligatorily. There are three ways to mark the possessor of a noun. One possibility is to add the suffixes *-ŋ*, *-m*, *-t* / *-tə'* to the noun. The suffixes are used for both singular and plural.

- (18)    *dada-ŋ*,                      *dada-m*,                      *dada-t(tə')*  
          brother-1                      brother-2                      brother-3POSS  
          'my / our brother'              'your brother'              'his / their brother' (Bo2 117)

Secondly, there are variants occurring with *-ta*, especially in case the possessed noun has a number-suffix or in case the possessor is determined for number (Bodding 1929b:113, 117). The suffix following *-ta* always denotes the possessor (19a). In (19b) the suffix *-ko* is the plural marker of the noun. Note that in (19c) the possessor+pronominal affix precedes the noun to which it belongs.

- (19) a.    *oɾak-ta-ko*                      b.    *gəi-ko-ta-e*  
          house-POSS-3p                      cow-PL-POSS-3s  
          'their house'                      'his cows'
- c.    *hantə-re*                      *ta-ko*                      *oɾak'*  
          over\_there-LOC                      POSS-3p                      house  
          'their house over there' (Bo2 113)

It might be assumed that the possessor marker *-ta* plus a pronoun had been moved from the noun to the verb. The next example (20) illustrates that it can occur as an independent argument in the clause.

- (20)    *kombɾo-et'-tahēkan*        *ta-le*        *hoɾ-ŋ*        *sap'-akad-e-a.*  
          steal-PRS:TR-AUX:stay      POSS-1pe      man-1sS      catch-PF:TR-3sO-FIN  
          'I have caught the man who used to steal our (dhan.).' (Sk 362)

Besides a few exceptions referred to as archaic by Bodding<sup>13</sup> I found no instances where pronominal suffixes were attached both to the noun and to the verb referring to the same possessor of a noun. In (21) the noun *dare* 'tree' is first

<sup>13</sup> Consider the following example, where two pronominal suffixes for 2s appear, *-me* on the noun and *-m* on the verb. *-laɽ* for 1di is often used by singular speakers to express threat.

*moca-me-laɽ*                      *koɽej-ta-m-a.*  
          mouth-2sPOSS-1diS                      beat-POSS-2sO-FIN  
          'I shall punch your mouth for you.' (Bo2 117)

marked for possessor, then unmarked in the second part of the clause, since it contains a verb form with possessor suffix.

- (21) haere haere, toa dare-ti-*n*-dɔ, toa dare-dɔ  
 alas alas milk tree-POSS-1s-TOP milk tree-TOP

gɔc'-gur-en-ti-*n*-dɔ.

die-fall-PST1:1TR-POSS-1s-TOP

'Alas, alas, my milk-tree, my milk-tree has died and fallen (from a lamentation, by daughters on death of mother).' (dictionary II.37)

However, there is a third way to signal the possessor, viz. by the personal pronoun (or a full noun) + genitive case, which precedes the possessed noun. Consider (22):

- (22) Kandna *in-ren* barea gɔi-y-e<sup>14</sup> gupi-y-et'-kin-ti-*n*-a.  
 K. I-GEN:ANIM two cow-y-3sS herd-y-PRS:TR-3dO-POSS-1s-FIN  
 'Kandna is herding my two cows.' (Bo2 202)

Here, the two cows belong to the speaker, marked by *in-ren*. This fact is signalled a second time in the verb (by *-ti-n*). The possessor suffix *-ta* is also used for an equivalent expression of the English 'to have'. It is attached to *mena-* 'be (locative), exist', cf. (23). The possessed object, *gidrə* 'the children' is treated as direct object, the possessor is marked by *-ta* (here by its variant *-ti*). The suffix *-k'* is used when the possessed argument has plural number.

- (23) gidrə mena-k'-ko-ti-*n*-a.  
 child be-PL-3pO-POSS-1s-FIN  
 'I have children.' (McP 41)

However, for several reasons the marking on the verb can not be equalled with simple possessor marking. First, the marking on the verb is not obligatory. There are examples where the possessor is shown only on the noun. Consider the following sentence, where we might expect the suffix *-ta-m* in *məilə-ge-ta-m-a-ko*:

- (24) am-ren gidrə-ko-dɔ ədɪ məilə-ge-a-ko.  
 you(sg)-GEN:ANIM child-PL-TOP very dirty-FOC-FIN-3pS  
 'Your children are very dirty.' (McP 21)

If the function of *-ta* is interpreted as marking the concerned person, it is easily conceivable that the marking is optional: The speaker may or may not specify a person who is concerned. However, no example has been found where the concerned person marked by *-ta* on the verb is different from the possessor marked on the noun.

<sup>14</sup>The semi-vowels /w/ and /y/ are inserted between vowels of the same height, /w/ for low vowels and /y/ for high or mid-high vowels.

Secondly, when a sentence contains more than one explicit core argument (subject and object),<sup>15</sup> *-ta* + pronoun refers to the possessor of the object (McPhail 1983:41). Consider (25) where *-tiŋ* POSS+1s refers to the possessor of *kuri* 'girl' which is the object.

- (25) *koŋa-dɔ*            *kuŋi-y-e*            *dal-ked-e-ti-ŋ-a*.  
 boy-TOP            girl-y-3sS            beat-PST1:TR-3sO-POSS-1s-FIN  
 'The boy beat my girl. (\*My boy beat the girl.)' (McP 41)

This rule nicely fits in with the notion of Concerned Object, which entails that something is happening to the referent of the Concerned Object so that he has to suffer (at least in an indirect way) due to some action. This impact is bigger when he is the possessor of the object (= patient) than when he is the possessor of the subject (agent). In the example above the girl's father, who might utter this sentence, is more concerned by the situation than the boy's father would be.

Thirdly, there are examples where the clause does not contain overt noun phrases of which the referent of the Concerned Object could be the possessor.

- (26) *tengo-len-me,*            *adɔ-ŋ*            *ŋel-ta-m-a*.  
 stand\_up-COND:ITR-2sS    then-1sS            see-POSS-2s-FIN  
 'Stand up, and I shall see what is the matter with you.' (Bo2 219)
- (27) *tinək'-em*            *dharao-akat'-ta-e-a?*  
 how\_much-2sS            owe-PF:TR-POSS-3s-FIN  
 'How much do you owe him?' (dictionary II.153)

This type of construction is especially frequent with first person inclusive pronouns (dual or plural).<sup>16</sup> The following examples illustrate this:<sup>17</sup>

(The wife says to her husband and the two sons:)

- (28) *ape-dɔ*            *nɔŋde*            *hɔr-re-ge*  
 you(pl)-TOP            here            road-LOC-FOC
- daka-hataŋ-ta-bon-pe,*            *ar*            *ɲn-dɔ*  
 prepare\_food-V2:meanwhile-POSS-1pi-2p:IMP    and            I-TOP
- uni*    *sɔdagɔr*    *kisɔŋ-then-ɲn*    *cala-k'-a*    *ar*    *abon*    *ʝɔtɔ*  
 this    merchant    rich-DAT-1sS    go-ITR-FIN    and    we(pi)    all

<sup>15</sup>As noted above only possessors of core arguments can be cross-referenced on the verb.

<sup>16</sup>Compare German where only the first person can figure as concerned object.

<sup>17</sup>The pronominal affix *-bon* (1pi) in the examples (28,29) is employed to subsume all the participants of the interaction. This use is related to another phenomenon in Santali, namely the use of the first person inclusive dual pronoun *-laŋ* for singular persons in threatening language (see example in footnote 11). Konow in his preface to Bodding's folktales (1925:XV) says this about the "original meaning of the dual": "It does not signify the number two, but one or two who necessarily belong together as a pair. The man who threatens another sees himself in the act which he is to perform as necessarily connected with the other one."



həʔ      ləgit'    ʝəmak'    ar      kicric'-iŋ      kəe-əgui-ta-bon-a.  
 person    for      food      and    clothes-1sS    ask-bring-POSS-1pi-FIN

'You stay here at the roadside and prepare food for us in the meantime, while I go to the rich merchant and beg and bring food and clothes for us all.'  
 (folktales II.4)

(The leopard is hunted and asks some traders for help:)

- (29)    daya-kate                      ma-ge                      oko-baŋcao-ka-ŋ-ta-bon-pe.  
 show\_mercy-CONV            MOD-FOC            hide-save-RES-1sO-POSS-1pi-2p:IMP  
 'Please show kindness and hide and save me (lit. for us).'

- (30)    cet'                      ləgit'-em                      sən-len-taḥəkan-a,  
 what                      for-2sS                      go-PST2:ITR-AUX:stay-FIN

ma                      sɛ                      ləi-a-ŋ-ta-laŋ-me.  
 MOD                      or                      tell-APPL-1s-POSS-1di-2s:IMP  
 'Please tell me for what purpose you had gone.' (Bo2 213)

Finally, there is an idiomatic use with the verb *hoe* 'become', where the *-ta* + pronominal affix denotes a concern in terms of obligation: the referent has to do something.

- (31)    cala-k'                      hoe-y-en-ta-e-a.  
 go-ITR                      become-y-PST1:ITR-POSS-3s-FIN  
 'He had to go.' (dictionary III.127)

- (32)    ape-də                      mɔ̄rē                      mǎhǎ                      din                      ɔ̄ŋdɛ-ge                      taheŋ  
 you(p)-TOP                      five                      day                      day                      there-FOC                      stay

ho-y-ok'-ta-pe-a.  
 become-y-ITR-POSS-2p-FIN  
 'You will have to remain there for five days.' (folktales I.229)

To sum up: The affix *-ta* + pronominal affix marked on the verb always denotes a concerned object. But the possessive origin of the affix is still present insofar that the referent of a Concerned Object must be identical with any overt possessor of a core argument. In the example (24) above, repeated here as (33), the only possible pronominal affix is *-m* 2s; e.g. *-ŋ* 1s would not be possible.

- (33)    am-ren                      gidrə-ko-də                      ədi                      məilə-ge-ta-m-a-ko.  
 you(sg)-GEN:ANIM                      child-PL-TOP                      very                      dirty-FOC-POSS-2s-FIN-3pS  
 'Your children are very dirty.'

\*am-ren                      gidrə-ko-də                      ədi                      məilə-ge-ti-ŋ-a-ko.  
 'Your children are dirty to me.'

## 5.2 Maithili

An interesting parallel concerning possessor marking on the verb is seen in the Indo-Aryan language Maithili, spoken to the north of the Santal region (Bickel, Bisang & Yadava 1998). Maithili also allows pronominal marking of peripheral noun phrases on the verb (in addition to subject and object); but whereas this type of marking is to a high degree limited to possessor marking in Santali, the Maithili pronominal affixes refer to a much broader range of possible peripheral participants.

First, the possessed noun does not have to be a core argument as in Santali, as the following example shows:

- (34) ham            tor-e                            ghar            par  
 I(NOM)        you(nh):GEN-FOC        house        LOC
- ge-l            ch-al-i-ah.  
 go-PART    AUX-PST-1NOM-2mh:nonNOM  
 'I had been to your house (not somebody else's).' (Bickel, Bisang & Yadava 1998:29)<sup>18</sup>

Secondly, not only possessors, marked by genitive case, but any other non-nominative case (dative, ablative, locative) can trigger agreement on the verb, e.g. ablative:

- (35) hunkā-sā        i        ghar        ban-ā-ol                            ge-l-ainh.  
 he(h):OBL-ABL this house build-CAUS-PART AUX:PASS-PST-3h:nonNOM  
 'This house was built by him (i.e., at his request).' (Bickel, Bisang & Yadava 1998:11)

On the other hand, not all persons are allowed in non-argumental marking: only non- or mid-honorific second person or honorific third person, which is historically due to several neutralizations in the intricate person agreement system.

In both languages this marking is optional and the pronominal affixes can encode referents that are not overtly present as noun phrases in the sentence. The range of semantic interpretation seems to be broader than in Santali. (36) is analogous to Santali, whereas the interpretation of (37) would be questionable in Santali:<sup>20</sup>

<sup>18</sup>The glosses have been slightly modified.

<sup>19</sup>The synchronic situation can be explained by the concepts of face and empathy (cf. Bickel, Bisang & Yadava 1998:28).

<sup>20</sup>Compare the following example, taken from a paradigm:

dal-e-ta-e-a-e.

strike-3sO-POSS-3s-FIN-3sS

'He will strike him, who is his.' (Sk 48)

The relationship between the possessor pronoun *-tae* and the possessed pronoun *-e* cannot be determined further, since there are no text examples.

- (36) ham okrā dekha-l-i-ah  
I:NOM he(nh):DAT see-PST-1-2mh:nonNOM  
'I saw him (who is related to you).' (Bickel, Bisang & Yadava 1998: 30)
- (37) bhaig je-t-ainh.  
run:CONV AUX:TEL-FUT(3)-3h:nonNOM  
'He (non-h) will run away (because he is afraid of him (honorific)).' (Bickel, Bisang & Yadava 1998:30)

## 6. Pronominal suffixes in the applicative construction

### 6.1 Santali

Pronouns used in applicative constructions occupy the same position as pronouns in direct object function. In addition, they require the presence of the applicative suffix *-a*.<sup>21</sup> It occurs with four tenses (Future, Present, Past 1 and Perfect),<sup>22</sup> with which it forms fusional tense affixes, parallel to those mentioned above. Again, there are two sets of suffixes, depending on whether the verb is used transitively or not.

#### (38) TAM markers with applicative suffix *-a*

	transitive set	intransitive set
Future	-a	-jɔŋ
Present	-a -kan-	-jɔŋ -kan-
Past1	-at'	-an
Perfect (Past2)	-aka-w-at' (-lak')	-aka-w-an

In the Conditional and Optative the direct object pronouns are used. The Past2 is found only with the inanimate object marker *-k'* (in *la-k'*). Since the Past1 has no form for inanimate objects, the suffix *la-k'* seems to fill this gap in the paradigm.

The applicative suffix *-a* allows another object than the patient to be cross-referenced on the verb. Compare the following sentence pair, where in (39a) the recipient is marked with the Dative case marker *-then* and is not represented by a pronoun on the verb, whereas in (39b) it is cross-referenced on the verb and no longer case-marked. Patient and recipient cannot be marked on the verb at the same time, so there is no pronominal affix referring to *gidrə* 'child' on the verb in (39b).

<sup>21</sup>Ghosh (1994) calls it "directional prefix" (p.94) or "dative marker" (p.114).

<sup>22</sup>It can be assumed that the Past1 marker *-at'* (*-ad'* before vowels) has arisen from *-a+ket'*, since the closely related language Ho still has the morpheme *-aked'* (Pinnow 1966:119).

- (39) a.    *maejju-then gidrə-ŋ ɛm-ked-e-a.*  
          woman-DAT child-1sS give-PST1:TR-3sO-FIN
- b.    *gidrə-də maejiu-in ɛm-a-d-e-a.*  
       child-TOP woman-1sS give-APPL-PST1:TR-3sO-FIN  
       'I gave the child to the woman.' (McP 41)

According to McPhail (1983:41) there is no semantic difference between the two sentences (39a) and (39b). In my opinion, however, the second sentence, uttered in an appropriate context, can also mean 'I gave the woman to the child'.

Let us look at another verb: *əbuk* 'wash' usually incorporates the patient as a direct object. Consider (40) where *peŋa hɔŋ* 'visitor' of the preceding clause is resumed as object pronoun, expressed by the suffix *-e*:

- (40) *peŋa hɔŋ-e hɛc'-len-khan janga-ko əbuk-e-a.*  
       visitor person-3sS come-COND:ITR-when feet-3pS wash-3sO-FIN  
       'When a visitor comes, they wash his feet.' (dictionary I.103)

The place where the washing happens would be marked by the locative case. However, it can be cross-referenced on the verb as well, using an applicative construction, e.g. in (41), taken from a text, in which a pond is scolding human beings:

- (41) *ŋel-pe, in-də ŋū-hɔ̃-pe ŋū-ŋ-kan-a,*  
       look-2p I-TOP drink-also-2p drink-1sO-IPFV-FIN
- ar ic'-hɔ̃-pe əbuk-a-ŋ-kan-a .*  
   and excrement-also-2p wash-APPL-1sO-IPFV-FIN  
   'See, me you drink, and me you also use for washing yourself when you have gone to stool.' (folktales I.16)

The applicative construction is used whenever the object is understood as being involved only in an indirect way by the action.<sup>23</sup> This is clearly seen with the causative marker *oco-*, e.g. in (42): (42a) with direct objects conveys causative meaning, whereas applicative in (42b) implies permissive meaning.

- (42) a.    *kirin-oco-ked-e-a-ŋ.*  
          buy-CAUS-PST1:TR-3sO-FIN-1sS  
          'I made him buy (it, e.g. the bullock).'

<sup>23</sup> Compare Bodding's (1929b:223) distinction between direct and indirect object (corresponding to pronouns in applicative constructions): "The difference is in the meaning, the relation of the verbal action to its object. With direct object we have the result of the performance, ... With indirect object the action is performed with the intention that it is to have special reference or application to somebody or something mentioned."

- b. kirip-oco-a-d-e-a-n.  
buy-CAUS-APPL-PST1:TR-3sO-FIN-1sS  
'I allowed him buy (it).' (Bo 54)

Other contrastive examples:

disə-w-a-	'remind somebody'	cf.	disə-	'remember somebody'
təl-a-	'tie on somebody'	cf.	təl-	'tie somebody'

- (43) a. ip-ip hirip-le-khan                      disə-w-a-n-me.  
I-1sS forget-COND:TR-when              remember-w-APPL-1sO-2s:IMP  
'If I forget it, remind me of it.'
- b. disə-ked-e-a-n.  
remember-PST1:TR-3sO-FIN-1sS  
'I remembered him.' (dictionary II.89)

The meaning of indirectness entails the following functions, which can be subsumed under the term "dative": goal, beneficiary, and direction. Compare the corresponding examples:

(i) goals or recipients of transfer verbs, e.g. 'to give', 'to bring', 'to say':

- (44) kurai-ko em-a-ko-a.  
wage-3pS give-APPL-3pO-FIN  
'They (will) give them their wages.' (Bo 66)
- (45) ləi-a-t'-ko-a-e,                      ba-e              hatao-e-a              mən-te.  
tell-APPL-PST1:TR-3pO-FIN-3sS      NEG-3sS      take-3sO-FIN      say-INST  
'He told them he would not take him.' (Bo 75)

The applicative suffix -a is required in order to refer to the goal of the verb 'say'. Compare two other examples without -a:

- (46) gəncək-ko              ləi-y-et'-a,              nə-s-də              akal              hoe-ok'-a.  
astrologer-3pS tell-y-PRS:TR-FIN this\_year-TOP scarcity happen-ITR-FIN  
'The astrologers say that there will be scarcity this year.' (dictionary II.466)
- (47) ləi-ked-e-a-e.  
tell-PST1:TR-3sO-FIN-3sS  
'He said that it was he (i.e. he informed against him).' (dictionary IV.66)

(ii) Beneficiaries:

- (48) parkəm              bel-a-ko-m,              peṛa-ko              həc'-en-a.  
bed              place-APPL-3pO-2sS      friend-3pS      come-PST1:ITR-FIN  
'Place a bedstead for them to sit on, visitors have come.' (dictionary I.242)

(iii) Other examples suggest extending the meaning to include directed actions in general, directed towards a person.<sup>24</sup>

- (49) *hēc'-a-d-iŋ-a-e.*  
 come-APPL-PST1:ITR-1sO-FIN-3sS  
 'He came to me.' (Sk 366)
- (50) *hola-e                      dak'-a-t'-le-a.*  
 yesterday-3sS              water-APPL-PST1:TR-1pe-FIN  
 'Yesterday we had rain.' (dictionary II:12)

Inanimate dative objects are marked by *-k'*, which is restricted to Present and Future tense. Example (50) contains an emotion verb; here *daka* 'food' is the affected object.

- (51) *daka cak'-em              kurud-a-k'-kan-a,              jom-me.*  
 food what-2sS              hate-APPL-INAN-IPFV-FIN              eat-2s:IMP  
 'Why do you hate the food? Eat.' (said to children who don't eat) (dictionary III:622)

In (52) it is a goal, in (53) a direction.

- (52) *katha                      alo-m                      juŋuc'-a-k'-a.*  
 speech                      PROH-2sS                      add-APPL-INAN-FIN  
 'Don't add anything to the statement.' (dictionary III:359)
- (53) *dare-ŋ                      beŋget'-a-k'-kan-tahēkan-a.*  
 tree-1s                      look-APPL-INAN-IPFV-AUX:stay-FIN  
 'I was looking at the tree.' (Bo 66)

The same applicative effect as described above can be observed with the pronominal affix *-k'*. In (54) the locative noun phrase *gaŋdo-re-y-e* 'on the stool' is marked by *-re* without being resumed in the verb, whereas in (55) the locative indication *māci* 'stool' is unmarked for case but is incorporated in the verb by *-ak'*.

- (54) *adɔ      əbuk-bɔɔ-kate              ona      gaŋdo-re-y-e*  
 then      wash-enter-CONV              that      stool-LOC-y-3sS
- duŋup'-en-khan-dɔ                      daka-utu-i*  
 sit\_down-PST1:ITR-when-TOP      rice-curry-3sS
- əgu-a-d-e-a.*  
 bring-APPL-PST1:TR-3sO-FIN

<sup>24</sup> Compare the suffix *-ay* in the South Munda language Sora (Biligiri 1965:234), which indicates "orientation towards the speaker" vs. *-e* indicating "orientation away from the speaker". Unfortunately Biligiri gives very few examples.

'When he had washed his hands and come in again, he sat down on the stool, and she brought him the curry and rice.' (from a text in Grierson (1908:IV, p.58))

- (55) *mæci-ko*      *duɣup'-a-k'-a*.  
 stool-3pS      sit\_down-APPL-INAN-FIN  
 'They will sit on the stool.' (Bo2 226)

The intransitive set of TAM markers together with the applicative marker is interpreted as conveying reflexive meaning, i.e. the action is directed towards the subject.

- (56) *tupri ar angɣop-e hɔrɔk'-akawan-a*.  
 hat and coat-3sS      put\_on-PF:ITR+APPL-FIN  
 'He has put on a hat and a coat.'

cf. *kurtə-ko hɔrɔk'-a-d-e-a*.  
 jacket-3pS      put\_on-APPL-PST1:TR-3sO-FIN  
 'They put a jacket on him.' (dictionary III.146)

- (57) *dhuri-y-e ɔjɔk'-akawan-a*.  
 dust-y-3sS      spatter-PF:ITR+APPL-FIN  
 'He has spattered himself with dust.' (dictionary IV.494)

- (58) *dare-akawan-a-e,*      *ki<k>ɾɿp-dɔ*      *baŋ*  
 get\_trees-PF:ITR+APPL-2-FIN-3sS      buy<CAUS>-TOP      NEG  
  
*hoe-ok'-ta-e-a*.  
 become-ITR-POSS-3s-FIN  
 'He has procured (fruit) trees for himself, he will not have to buy.'  
 (dictionary II.38)

## 6.2 Hayu

A similar applicative construction appears in the Kiranti language Hayu.<sup>25</sup> The morpheme to be dealt with here is called "applicatif" by Michailovsky (1988:89ff, 139ff). In contrast to Santali, where the applicative is found with all person combinations and with all transitive verbs, the distribution of the Hayu applicative is limited. It is found only in about half the transitive verbs and, moreover, only in parts of their paradigms,<sup>26</sup> namely in the combinations 1s > 3, 1p > 2, 3, 2s > 3, 3 > 3. All these person / number suffixes have initial *t-*. For other person combinations the usual (non-applicative) forms are used. Some examples (Michailovsky 1988:90):

<sup>25</sup>In some Kiranti languages (Limbu, Camling) another type of applicatives is found, which is not productive and belongs to stem extension, e.g. Camling *ɾi-* 'laugh', *ɾit-* 'laugh at s.b.' (Ebert 1994:20).

<sup>26</sup>Some transitive verbs with alternating verb stems (*±t-*) have a complete applicative paradigm: Non-applicative forms lack final *-t*, whereas applicative and nonfinite forms show final *-t* (p.99). However, the applicative forms do not distinguish past vs. non-past.

	non-applicative	applicative	
1pi > 2, 3 nonpast	<i>pux-ke</i> 'we lift you / them'	<i>puk-tike</i> 'we lift for you / them'	(k+k -> x-k)
1pi > 2, 3 past	<i>pux-kikenj</i> 'we lifted you / them'	<i>puk-tikenj</i> 'we lifted for you / them'	
2s > 3p	<i>pux-kome</i> 'you lifted them'	<i>puk-tome</i> 'you lift / lifted for them'	

The fact that the applicative occurs in this restricted way can be explained in morphological terms: all the corresponding forms in the past tense have initial *k-*, which is replaced by *t-* in the applicative forms. Semantically all applicative forms involve a third person patient. As in Santali the Hayu applicative allows fewer tense distinctions: in most of the cases there is only one form for both past and nonpast tense and only the combination 1p > 2, 3 shows two distinct forms.

Whereas the morphological differences are numerous, the semantics seems to be surprisingly similar. Generally speaking, the applicative is found when the object of a verb is considered beneficiary rather than patient. More precisely, a verb with applicative refers to an action which is directed towards the object, which either profits or suffers from this situation, or which is the original author of the situation. However, whether a transitive verb possesses applicative forms or not and which meaning they have has to be stated for each verb in the lexicon. In contrast to Hayu, any verb in Santali can appear with the applicative, provided that the semantics allows this.

There are three classes of verbs in Hayu:

- (i) verbs that never take applicative forms; e.g. *jeŋ-* 'see', *op-* 'tear'.
- (ii) verbs that always take applicative forms; examples like *ha-* 'give' or *mum-* 'offer' neatly fit into the description given above, but this group includes other verbs such as *on-* 'be strong' or *sit-* 'kill'.
- (iii) verbs that can appear with applicative or non-applicative suffixes: *ba-* 'take' or *cup-* 'wear'. The applicative suffixes are found when the verb is used ditransitively.

Syntactically we have the same constellation as in Santali: the patient is left unmarked in the applicative verb. Consider the following example (note that, in contrast to Santali, the agent is marked by the ergative *-ha* in Hayu; the two objects are in the unmarked absolutive case):



- (59) uxpu-ha a-tarwo cu?wa-khata cup-to-m.  
 father-ERG his-son cloth-PL put\_on-3s>3s:APPL-ASS  
 'The father dressed his son.' (Michailovsky 1988:143)

When the beneficiary is not integrated into the verb by the applicative construction, the nominal in the clause must be designated by another marker than the absolutive, e.g. by *-le:si* 'for' in the following example:

- (60) aŋ-mv-le:si mi cu?wa cup-ko.  
 I-GEN-for this blouse put\_on-2s>3s/d:IMP:NON-APPL  
 'Put this blouse on for me!' (Michailovsky 1988:143)

Note that inanimate objects are cross-referenced on the verb in Hayu, in contrast to Santali, where only inanimate *goals* are marked.

The following example shows that all beneficiaries are not automatically objects of applicative verbs (*sit*- 'kill' belongs to the group of verbs that always take applicative forms):

- (61) komi-ha aŋ-le:si kolu xo:co six-to-m. (sit-to -> six-to)  
 he-ERG I-for a chicken:ABS kill-3s>3s:PST-ASS  
 'He killed a chicken for me.' (Michailovsky 1988:140)

### 6.3 Summary

The applicative exhibits the following characteristics in the two languages:

	Santali	Hayu
Syntactic:	Both allow the marking of an indirect object pronoun on the verb.	
Morphological:	Form: <i>-a</i> Restrictions on TAM categories, no person restrictions	Form: <i>-t</i> TAM and person restrictions.
Semantic:	Both refer to goals or imply a directed action. No lexical restrictions.	Occurs only with a limited set of verbs.

To conclude, I would like to present a last Santali example, illustrating multiple possessor marking. Bodding introduces this example by saying: "I remember an old woman saying with some pride."

- (62) hɔpɔn-ɪŋ-dɔ khube-ge-y-e kəmi-ket'-ta-e-ti-ŋ-a.  
 son-1s-TOP very\_much-FOC-y-3sS work-PST1:TR-POSS-3s-POSS-1s-FIN  
 'This son of mine worked very much and well for him.' (Bo2 166)

*Abbreviations used in this article*

ABS	absolute	LOC	locative
ANIM	animate	mh	mid-honorific
APPL	applicative	MOD	modal particle
ASS	assertive	NEG	negative
AUX	auxiliary	nh	non-honorific
CAUS	causative	NOM	nominative
COND	conditional	O	object
CONV	converb	OPT	optative
d	dual	p / pl	plural
DAT	dative	PART	participle
DIR	directional	PASS	passive
e	exclusive	PF	perfect
ERG	ergative	POSS	possessive
FIN	finite marker	PRS	present
FOC	focus marker	PROH	prohibitive
FUT	future	PST	past
GEN	genitive	RES	reservative
HAB	habitual	s / sg	singular
IMP	imperative	S	subject
INAN	inanimate (object)	TEL	telicizer
IPFV	imperfective	TOP	topic marker
ITR	intransitive	TR	transitive

## REFERENCES

- Bickel, Balthasar, Walter Bisang and Yogendra P. Yadava. 1998. "Face vs. empathy: The social foundation of Maithili verb agreement." *ms.* 34 pp.
- Biligiri, H. S. 1965. "The Sora verb, a restricted study." *Lingua* 15: 231-50.
- Bodding, Paul O. 1922. *Materials for a Santali Grammar I (Mostly Phonetic)*. Dumka: Santal Mission of the Northern Churches.
- Bodding, Paul O. 1925 [1997]. *Santal Folk Tales*. Oslo: H. Aschehoug & Co. [repr. New Delhi: Gyan Publishing House].
- Bodding, Paul O. 1929a. *A Santali Grammar for Beginners*. Benagaria: Santal Mission of the Northern Churches.
- Bodding, Paul O. 1929b. *Materials for a Santali Grammar II (mostly morphological)*. Dumka: Santal Mission of the Northern Churches.
- Bodding, Paul O. 1929-36. *A Santali Dictionary*. Oslo: Dybwad.
- Davies, William D. 1986. *Choctaw Verb Agreement and Universal Grammar*. Dordrecht: Reidel.
- Draye, Luc. 1996. "The German dative." In William Van Belle and Willy Van Langendonck, eds. *The dative* pp. 155-215. Amsterdam: Benjamins.
- Ebert, Karen H. 1994. *The Structure of Kiranti Languages. Comparative Grammar and Texts*. Zürich: Universität.
- Ghosh, Arun. 1994. *Santali - A Look into Santal Morphology*. New Delhi: Gyan Publishing House.
- McPhail, R. M. 1957. *An Introduction to Santali, Parts 1 & 2*. Calcutta: KLM Private Limited.
- Michailovsky, Boyd. 1988. *La Langue Hayu (Nepal)*. Paris: CNRS.
- Pinnow, H.-J. 1966. "A comparative study of the verb in the Munda languages." In Norman H. Zide, ed. *SCAL* pp. 96-193. The Hague: Mouton.
- Salas, Adalberto. 1992. *El mapuche o araucano*. Madrid: Editorial Mapfre.
- Skreftsrud, L. O. 1873. *A Grammar of the Santhal Language*. Benares: Medical Hall Press.

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