A typological overview of Mwotlap

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Abstract

The typologist reader is presented here with an overview of the most interesting characteristics of Mwotlap, an Oceanic language of Vanuatu. After a short presentation of its phonology, its main morphosyntactic categories are described and functionally explored. The construal of noun phrases reveals the cognitive asymmetry between human individuals and other referents. Nouns, just like verbs or adjectives, are predicative, and even sensitive to (tense-)aspect-mood markers and actionality properties. The argument structure of a verb can regularly be affected by its modifiers. Finally, deictics can be shown to play a major role in the structuring of discourse and complex sentences. Whenever relevant, the grammar of Mwotlap is briefly compared to other languages, and assessed in the light of existing typological generalisations.

Keywords: Mwotlap, Oceanic, vowel harmony, pronoun, noun, number, animacy, referentiality, possession, predicate, aspect, actionality, negation, object incorporation, serial verbs, valency change, deixis, clause hierarchy.
1. Introduction

Among the hundred or more Oceanic languages spoken nowadays in the Republic of Vanuatu, Mwotlap is still well alive, being spoken by a dynamic population of 2,000 speakers of all ages. Apart from those who live in town, where the Bislama pidgin is threatening the vernaculars, the majority of Mwotlap-speaking people reside on their tiny island of Motalava, in the north of the archipelago. Their way of life, which combines subsistence agriculture and fishing, essentially perpetuates the culture of their Austronesian ancestors who first peopled these rainforest islands about 3,200 years ago. The slow introduction of Western education and economy has had limited impact upon daily life thus far; but the ancient social organisation and political institutions have been largely ruined by the Christian missionaries over the last 150 years, to such an extent that most of the knowledge regarding the traditional society now only survives in the memory of a few.

The present paper aims at providing typologists with a synthetic view of Mwotlap grammar (François 2001b, 2003a). Due to space limitations, we will confine ourselves to the principal wheels of the system, and focus on the characteristics that make this language typologically unusual. Although Mwotlap obviously shares a number of properties with other languages of the Oceanic family (Lynch et al. 2002), we will have to keep such comparisons to a minimum, for this might lead us beyond the scope of this presentation. Likewise, the historical dimension will have to be omitted, so that Mwotlap will only be described synchronically. Whenever useful, references to other relevant publications will be given.

After a review of its most salient phonological properties (§2), the following sections will describe the main regularities of the morphosyntax, as well as the semantic categories and functional motivations they reveal: in the domain of noun phrases (§3); in TAM-marked verb phrases and other forms of predicates (§4); in the managing of arguments (§5); and in the general organisation of the sentence (§6).
2. Phonology

2.1. Phoneme inventory

The inventory of consonants is given in Table 1.

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<th>Table 1. The consonants of Mwotlap</th>
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</tr>
<tr>
<td>voiceless stops</td>
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<tr>
<td>prenasalised voiced stops</td>
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<tr>
<td>fricatives</td>
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<tr>
<td>nasals</td>
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<tr>
<td>lateral</td>
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<tr>
<td>glides</td>
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</table>

The system lacks any flap or trill. As for the labial stop [p], it only exists as the allophonic form taken by phoneme /β/ syllable-finally: e.g. /βαβαβ/ ‘say’ is realised as [βαβαβ], and spelt vavap. /γ/ often surfaces as a velar glide [uγ], that is, an unrounded [w]. The only voiced stops are prenasalised /mb/ and /nd/; this is the form taken by plain voiced stops in loanwords: e.g. [sktɔmba] ‘October’. These prenasalised phonemes lose their oral component syllable-finally: e.g. the loanword ["belekat] (from English ‘play cards’) reduplicates as ["belemelekat]; similarly ["dji] ‘wait’ becomes [menji] when prefixed with Perfect /me\(^-\)/.

Cross-linguistically, labiovelar (LV) obstruents may consist of a combination {velar plosive + LV glide}, as [kw\(^w\)], [g\(^w\)] in Proto Indo-European; {labial plosive + LV glide}, as [b\(^w\)], [m\(^w\)] in many Oceanic languages; or {LV plosive without glide}, as [kp], [gb], [hm] in many languages of Central Africa. Mwotlap illustrates the maximal combination, with {LV plosive + LV glide}, namely [kp\(^w\)] and [hm\(^w\)]. The now extinct dialect of Volow even had a more complex phoneme, a prenasalised voiced labiovelar stop [ʰmgb\(^w\)].

Vowels form a symmetrical system with seven members: /i i e a o u/, all short. Mwotlap lacks long vowels or diphthongs, as well as tones. All words, or phrases, are stressed on their final syllable.

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1 Mwotlap syllables have the form (C)V(C): see 2.2.2.
2.2. **Main phonological rules**

The phonology of Mwotlap is dominated by various forms of distance assimilation between vowels.

2.2.1. **Vowel harmony**

The Advanced Tongue Root (ATR) feature is involved in the contrast between [+ATR] /i/-/u/ on the one hand, and their [-ATR] counterpart /i/-/u/ on the other hand. Mwotlap is developing a form of [ATR] vowel harmony (François 1999; 2001b: 94, 472), which is unusual in the Oceanic area.

Indeed, the morphology of inalienable possession (see Table 3, and 3.2.3) involves two stems. Stem 1 combines with 1sg suffix -k, and ends with a vowel other than /a/, e.g. /kp^wilga-k/ ‘my father-in-law’, /mAju-k/ ‘my uncle’; stem 2 combines with 3sg suffix -n, and always involves a final vowel that is one step lower than stem 1: thus /kp^wilga-n/ ‘his father-in-law’, /mAju-n/ ‘his uncle’.

Now, the rule for vowel harmony applies to those lexemes—in fact no more than ten—whose stem 1 displays two high [+ATR] vowels /i/ or /u/ in the last two syllables. In this case, the lowering of the final vowel from [+ATR] /i, u/ to [-ATR] /i, u/ contaminates the preceding syllable(s). This amounts to a form of leftward [ATR] harmonisation, e.g. /inti-k/ ‘my child’ → /inti-n/ ‘his child’; /ni-nimi-k/ ‘my shadow’ → /ni-nimi-n/ ‘his shadow’; /n-ulsi/ ‘top (of)’ → /n-ulsi-n/ ‘its top’.

Note that this rule does not operate in the other direction. For example, the [-ATR] stem 2 /nu-\-\-ami-n/ ‘its root’ corresponds to a heterogeneous stem 1 /nu-\-\-ami/ ‘root (of)’, not */nu-\-\-ami/. In other words, [-ATR] is the active value in this pattern of vowel harmony. Mwotlap therefore contradicts the general tendency observed in Africa (Casali 2003: 356), that a /i/\-\-\-\-ou/ system should typically result in [+ATR] dominance.

2.2.2. **Vowel epenthesis and vowel copy**

Also noteworthy in Mwotlap is the set of rules derived from phonotactic constraints. The only acceptable syllable pattern is (C)V(C). This implies that clusters of two (and no more) consonants are common within the word, but impossible both in word-initial and word-final position. Consequently, a root whose underlying form begins with C1C2V- must undergo vowel epenthesis whenever C1 coincides with the word boundary:
C₁C₂Vi- → C₁V₁C₂Vi- /___
#
mtij → [mtij] ‘sleep’; #βlay → [βlay] ‘run’

But this epenthesis is unnecessary when the C₁C₂Vi- root takes a prefix of the form CV-, like Perfect /m-/

m- + mtij → [mmtij] ‘slept’; m- + βlay → [melay] ‘ran’

A corollary of this mechanism is its demarcative function: it helps locate the word boundary, and therefore provides a test to distinguish between compound words and phrases, as well as between affixes and clitics. For example, the single phonological word [na-pný] ‘a/the village’ shows the nominal article to be an affix (prefix na-, see 3.2.1); whereas the sequence [m- βnú] ‘of the village’ must be analysed as two distinct phonological words, the preposition /m/ ‘of’ being a clitic.

Besides epenthesis, the morphology of prefixes is characterised by pervasive rules of vowel elision (e.g. /na-/ + /et/ → [n-et] ‘person’; /m-/ + /ak/ ‘do’ → [m-ak] ‘has done’), vowel copy (e.g. /na-/ + /γɔm/ → [n₂-γɔm] ‘sickness’; /m-/ + /γɔm/ → [m₂-γɔm] ‘got sick’), and vowel transfer (/na-/ + /βhɔγ/ → [n₁-βhɔγ] ‘flesh’; /m-/ + /liwɔ/ ‘big’ → [m₁-liwɔ] ‘increased’). These rules, which cannot be detailed here, are best analysed in a multi-linear framework, resorting to such notions as “syllabic template” and “floating vowels” (François 2000a; 2001b: 96-128).

In the following sections, Mwotlap forms will be cited employing the orthography in use. The conventions include the following: e = [ɛ]; ê = [ɨ]; o = [ɔ]; õ = [ʊ]; y = [j]; g = [γ]; v = [β]; b = [m̩b]; d = [d]; n = [ŋ]; q = [kpw]; ¼ = [m].

3. The mechanics of reference

In order to provide a predicate with its arguments, a preposition with its complement or a possessed item with its possessor, one needs to refer to entities. This is done essentially by means of personal markers (3.1) and noun phrases (3.2).
3.1. Pronouns and personal markers

3.1.1. The main paradigms

The distinction between inclusive and exclusive 1st person, combined with the use of four numbers (singular, dual, trial, plural), is the reason why Mwotlap possesses as many as fifteen grammatical ‘persons’, i.e. fifteen combinations of person and number. No gender distinction of any kind is made in the morphology of this language.

*Table 2. The personal pronouns of Mwotlap*

<table>
<thead>
<tr>
<th></th>
<th>singular</th>
<th>dual</th>
<th>trial</th>
<th>plural</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 INC</td>
<td>dô ~ dôyô</td>
<td>êntêl ~ détêl</td>
<td>gên</td>
<td></td>
</tr>
<tr>
<td>1 EXC</td>
<td>no ~ nok</td>
<td>kamyô</td>
<td>kamtêl</td>
<td>kem ~ kemem</td>
</tr>
<tr>
<td>2</td>
<td>nêk</td>
<td>kômyô</td>
<td>kêmtêl</td>
<td>kimi</td>
</tr>
<tr>
<td>3</td>
<td>kê</td>
<td>kôyô</td>
<td>kêytêl</td>
<td>kêy</td>
</tr>
</tbody>
</table>

These fifteen personal categories are then distributed into several paradigms of markers according to their function. The principal set is that of simple personal pronouns (*Table 2*), which fill the slots of subject, object, complement of preposition:

(1) *No m-et kôyô; kôyô m-et no.*

1SG PFT-see 3DU 3DU PFT-see 1SG

‘I saw them, and they saw me.’

Mwotlap follows a strictly nominative-accusative syntax, with SVO as the basic constituent order. In the absence of case marking, the function of the core arguments is only indicated by their position in the sentence.

Special emphatic forms, phonologically heavier (e.g. *ino* 1SG, *inêk* 2SG, *(i)dôyô* 1INC:DU), must be used in the positions of topic, predicate or focus:

(2) *Et-inêk te, ino no ta-dam qiyig kê.*

NEG1-2SG:EMPH NEG2 1SG:EMPH 1SG HF1-follow HF2 3SG

(lit.) ‘It’s not you, (it’s) me (who) will go with her.’
There is no reflexive or reciprocal\(^2\) pronoun. The ordinary pronouns are used in all cases, with resulting ambiguity:

(3) \(K\)ŏ\(y\)ō \(m\)u-wuh mat \(k\)ŏ\(y\)ō.
3DU PFT-hit dead 3DU
a) ‘They, killed them.’ [different participants]
b) ‘They, killed themselves.’ [reflexive]
c) ‘They killed each other.’ [reciprocal]

Such a sentence can be disambiguated, at least partially, by the reversive modifier \(l\)ok (‘back’):

(3\’) \(K\)ŏ\(y\)ō \(m\)u-wuh mat \(l\)ok \(k\)ŏ\(y\)ō.
3DU PFT-hit dead REVER 3DU
a) ‘They, killed them back.’
b) ‘They, killed themselves.’ [reflexive]
c) ‘They killed each other.’ [reciprocal]

Another set of personal markers is the list of fifteen possessive suffixes, which combine with inalienable nouns and possessive classifiers (3.2.3). The noun appears either with its stem 1 or its stem 2 (see 2.2.1), following some morphological variation which cannot be detailed here. Table 3 illustrates the inflection of nouns for possession, using the inalienable noun \(i\)plu ‘friend, fellow’.

Table 3. Possessive suffixes and stem variation

<table>
<thead>
<tr>
<th></th>
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<th>dual</th>
<th>trial</th>
<th>plural</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>INC</td>
<td>ēplō-dō</td>
<td>ēplō-ntēl</td>
<td>ēplō-ngēn</td>
</tr>
<tr>
<td>1</td>
<td>EXC</td>
<td>(i)plu-(k)</td>
<td>(i)plu-māmyō</td>
<td>(i)plu-mamtēl</td>
</tr>
<tr>
<td>2</td>
<td>(i)plu ((Ø))</td>
<td>(i)plu-mōyō</td>
<td>(i)plu-mētēl</td>
<td>(i)plu-mī</td>
</tr>
<tr>
<td>3</td>
<td>ēplō-n</td>
<td>ēplō-yō</td>
<td>ēplō-ytēl</td>
<td>ēplō-y</td>
</tr>
</tbody>
</table>

A particular pattern involving personal pronouns deserves attention: the ‘inclusory’ constructions,\(^3\) which are common in Oceania (Lichtenberk 2000). In

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\(^2\) The reciprocal prefix \(vē\)- is not syntactically productive, and is only attested in a handful of lexical collocations. The result of this derivation is an intransitive verb: \(tīt\) ‘knock (s.o.)’ \(→ vē\(y\)-\(t\)īt ‘fight (with each other)’.

\(^3\) These constructions were described by François (2001b: 384 sqq; 477 sqq) under the name ‘associative non-singular’, suggesting a comparison with a similar pattern known as ‘associative plural’ (Corbett 2000: 101 sqq.; Moravcsik 2003).
one of these structures, a first phrase referring to a single person X (noun, proper name) is followed by a non-singular 3rd person pronoun, to refer to a group of people including X: e.g. Edga kôyô (lit. E. they-two) ‘Edgar and his fellow/his wife/his daughter…’; dokta kêy (lit. doctor they) ‘the doctor and his team/his friends/his relatives…’ (distinct from plural ige dokta ‘the doctors’). Another inclusory structure consists for a dual pronoun to be followed by a phrase referring explicitly to the second member Y of the couple: kamyô welan (lit. we-two chief) ‘the chief and I’ (see ex. 36). The same applies for dual possessive suffixes:

(4) inti-mamyô welan
    child-[EXC::DU] chief
    (lit. the child of us-two chief) ‘the son I had with the chief’

Finally, the combination of these two inclusory constructions has paved the way for the 3DU pronoun kôyô to grammaticalise as the standard NP coordinator (X kôyô Y ‘X and Y’), at least when two human individuals are being associated:

(5) No m-et vêglal imam kôyô tita.
    1SG PFT-see know father 3DU mother
    ‘I recognised dad and mum.’ (lit. …dad they-two mum)

3.1.2. SOME RESTRICTED PARADIGMS

What is particularly original among Mwotlap pronouns is the existence of three sets of markers, whose functional restrictions explain why they are limited to certain persons.

First, commands make use of a special list of imperative pronouns, centred on the addressee: Ø for 2SG, amyô for 2DU, amtêl for 2TR, ami for 2PL. Imperative modality is therefore coded on the pronoun rather than on the verb:

(6) Kömyô hohole liwo.
    2DU AO:speak:DUP big
    ‘You’re speaking loudly.’ [statement]

(6’) Amyô hohole liwo!
    2DU:IMP AO:speak:DUP big
    ‘Speak up!’ [command]

Second, the vocative function involves three pronoun-like forms, which of course are also reserved for the second person: yohê ‘you two’, têlhê ‘you three’, yêhê ‘you guys’. There is no specific form for the singular; other address
strategies are used instead, such as a proper name (except for in-laws), a kin term, or a noun like *bulsal*! ‘mate!’:

(7)  
\[ \text{Ét! Bulsal! (Ø) van tô me!} \]  
\[ \text{EXCL mate (2SG:IMP) AO:go POLIT hither} \]  
‘Hey, mate! Come here for a second.’

(7’)  
\[ \text{Ét! Yohê! Amyô van tô me!} \]  
\[ \text{EXCL DU:VOC 2DU:IMP AO:go POLIT hither} \]  
‘Hey, you guys! Come here for a second.’

A Mwotlap speaker will use honorific dual when addressing, or talking about, an in-law. In this specific case, a sentence like (7’) will refer to a single person—as with French honorific plural *vous*.

Third, the particle *wo*, which serves for quoting speech and face expression, may take an ordinary pronoun as its subject (*kê wo... ‘he said:...’*). But the language also possesses a small set of quotative pronouns exclusively for this purpose, and reserved for the third person: *amtan* 3SG, *amtayô* 3DU, etc.

(8)  
\[ \text{Tô amtan wo “M-akteg?!”.} \]  
\[ \text{then 3SG:QUOT PFT-do.what} \]  
‘So he went: “What's going on?!”.’

The stylistically marked pronoun *amtan* is preferred to *kê* when speakers want to make their speech more expressive or *recherché*, either in a literary or a jocular context (compare Eng. *he said* vs. *he went*). Etymologically, these curious forms probably meant ‘his face [went like this...]’ (cf. *na-mta-n* ‘his eyes’). A rarer variant *amtalñan* also includes the radical of *na-ña-n* ‘his voice’.

### 3.2. Nouns and noun phrases

The canonical order of NP elements is: \{ article\_1 – head noun\_2 – modifying noun\_3 – adjective\_4 – purposive phrase\_5 – possessor\_6 – numeral\_7 – quantifier\_8 – locative\_9 – deictic\_10 – relative clause\_11 – discourse marker\_12 \}:

(9)  
\[ \text{na\_1-tmo\_2 kikbol\_3 liwo\_4 no-ngên\_6 vøyô\_7 yow\_9 nôk\_10 en\_12} \]  
\[ \text{ART-place soccer big POS-1INC:PL two out there BKG} \]  
‘these two large soccer fields of ours over there seawards’

Notice that Mwotlap constitutes no exception to the typological observations made by Greenberg (1963): the post-nominal position of adjectives, possessors and other modifiers is consistent with its SVO basic constituent order, as well as
with the use of prepositions or clause-initial linkers.

The possible functions an NP can fulfil are verbal argument (subject, object: see §5), complement of preposition (5.3), possessor phrase, or predicate (4.1.1). This section will focus on the internal structure of the noun phrase, presenting the noun and its article (3.2.1), as well as principles for coding number (3.2.2) and possession (3.2.3). Other elements of the NP, such as deictics or relative clauses, will be discussed later.

3.2.1. Noun classes and the individuation scale

Mwotlap possesses two classes of nouns, which differ in their morphosyntactic behaviour. Class I consists of lexemes that may function directly (that is, with no need of the article na-) as the head of an NP. Semantically speaking, these nouns all share the feature [+human]: e.g. *imam* ‘dad’, *moyu-k* ‘my uncle’, *têytêybê* ‘a/the healer’, *welan* ‘a/the chief’. These Class-I nouns fill the same slot as proper names, as well as—to a lesser extent—personal pronouns.

Class II consists of those lexemes that need the article prefix na- (~ nV-) in order to become the head of an NP. Generally speaking, the members of this class II are all [-human] nouns, whether animals, objects, abstract notions, verbal nouns, and so on: e.g. *na-bago* ‘shark’, *ne-vet* ‘stone’, *na-pnô* ‘village’, *no-gom* ‘sickness’, *ne-welan* ‘chiefhood’ (vs. *welan* ‘chief’). The only exceptions to the [-human] rule are the three Class-II nouns *n-et* ‘person’, *na-tañ* ‘man’, *na-lgôvên* ‘woman’.

When deprived of its article na-, a Class-II lexeme does not form a valid NP, and can only function as a modifier of another head. Thus in each of the following phrases, the second word acts as a modifier to the preceding noun: e.g. *n-êvet* ‘a stone house’, *n-êgom* ‘a sickness house (a hospital)’, *bôbô taña* ‘grandparent male (grandfather)’, *na-he et* ‘a person's name’. The unprefixed form of the noun is also required after certain linkers, such as ne ‘of’: *welan ne vônô* ‘the chief of the village’. Likewise, a bare Class-II noun may modify a verbal head, as in the case of object incorporation (5.2.1): *tañtäñ et* ‘to person-touch (to massage)’, *wêlwêl lôgôvên* ‘to woman-buy (to marry)’. In practically all these cases, the unprefixed Class-II noun appears to point to a quality (e.g. *vet* ‘stony’, *tañ* ‘male’) rather than designate an autonomous
entity; and it is precisely the function of the article na- to embody this quality into a discrete, specific referent (e.g. ne-vet ‘a/the stone’, na-ti\ñan ‘a/the man’).

The formal split between these two noun classes can perhaps be explained in functional terms. The faculty of being compatible with both a referential and a non-referential interpretation is typically a characteristic of [-human] nouns, as well as of the three [+human] nouns that are statistically most likely to be used as a generic modifier (‘person’, ‘man’, ‘woman’). All these Class-II lexemes are thus potentially ambiguous on the scale of specificity, and this makes the formal contrast /article + N/ vs. /bare N/ functionally meaningful for them. Conversely, the referentiality criterion appears to be less relevant for the nouns of Class I, because designating a person typically implies already a high degree of individuation.

3.2.2. CODING FOR NUMBER

The semantic feature of humanhood appears to be the key to understanding several formal categories throughout the grammar of Mwotlap. Indeed, besides accounting for the division of nouns into two lexical classes, the same property is also central to the mechanics of number marking. Briefly, number distinctions are formally coded with human referents, but are neutralised when the referent is non-human (François 2001b: 360-370).

3.2.2.1. Collectives and number articles

We already mentioned the four number categories of Mwotlap in our discussion of pronouns; indeed, person marking is typically a domain where a language should be expected to make number distinctions. As far as noun phrases are concerned, non-singular number is coded by a triplet of “collective” morphemes.

When used on their own, these pronoun-like collectives refer to a group of people, with no other qualification than the feature [+human]: yoge ‘(the) two people’, têlge ‘(the) three people’, ige ‘(the) people’. Unlike standard personal pronouns, these collectives typically designate a new referent (indefinite).\(^4\)

\(^4\) In other cases, the referent of the collective is already topical (definite) but has been temporarily deactivated in discourse. The difference between collectives and personal...
Most of the time, however, these collectives are followed by some kind of modifier, just like any NP head would be (see 9). This can be an adjective ige qagqag ‘(the) white people’; a locative phrase ige ta-Franis ‘the French’; a purposive phrase ige bi-kikbol (lit. people for soccer) ‘soccer players’; a possessive classifier ige mino (lit. people my) ‘my people, my family’; or a deictic yoge gôh ‘these two people’. For each of these phrases, the syntactic head is clearly the collective.

Of course, nothing prevents this modifier from being a noun, as long as it is [+human]: têlge taña (lit. three-people male) ‘(the) three men’, yoge bulsal (lit. two-people friend) ‘(the) two friends’. As a matter of fact, this is how Mwotlap regularly forms non-singular numbers for all its [+human] nouns, whether of class I or class II: hence na-lqôvên ‘(a/the) woman’, yoge lôqôvên ‘(the) two women’, têlge lôqôvên ‘(the) three women’, ige lôqôvên ‘(the) women’. Notice that in this case, by an effect of structure, the article na-receives a singular reading (which it doesn't necessarily have with non-human nouns); and the collective, despite being formally the NP head, could well be analysed alternatively as a kind of number article.5

3.2.2.2. The morphosyntax of number

Besides the use of collectives on the noun, number distinctions may be encoded...
by other formal clues in the sentence, such as the reduplication of certain nouns or adjectives\(^6\) (*nêtnêney* ‘child’ → *nêtnêney* ‘children’; *su* ‘small:SG’ → *susu* ‘small:non-SG’); the personal pronouns; and the agreement on the verb (only in the case of Aorist: 3SG *ni*- vs. Ø- elsewhere).

\[11\] *Nêtnêney su en, kê ni-môl.*

\[11’\] *Yoge nêtnêney susu en, kôyô (Ø-)môl.*

\[12\] *Gên môk ne-vet l-ep tô kê ni-vey.*

Conversely, non-human referents formally neutralise all number distinctions. As a consequence, all Class-II nouns but three are invariant with respect to number: e.g. *ne-vet* means ‘stone’ or ‘stones’. In (12), the whole sentence is grammatically treated as singular, and only cultural knowledge reminds us that the cooking stones used in the Melanesian earth oven actually count in dozens:

\[12\] *Gên môk ne-vet l-ep tô kê ni-vey.*

Non-human nouns are not compatible with collectives (*ige vet*), and are treated as singular even in the presence of a numeral: e.g. *ne-vet vêtêl ni-vey* (lit.) ‘the three stone gets red-hot’; see also (9).

3.2.2.3. **The animacy hierarchy**

This morphosyntactic split, which Mwotlap seems to have brought to an extreme, can be found in other Oceanic languages, and is not totally absent from other parts of the world. In such languages as Georgian (Hewitt 1996: 53) or Classical Greek, plural inanimate subjects take singular agreement on the verb; and Mundari (Austro-Asiatic; Bhattacharya 1976: 191-192) restricts number marking to animate referents. While these languages draw the categorial boundary with respect to the feature [animate], in Mwotlap what is relevant is humanhood. However, the essential point here is to note that all these languages

\(^6\) To some extent, reduplication on the verb may also suggest a plural argument (subject and/or object); but this is just one possible reading of plural action—which is what reduplication really codes for (François 2004b).
satisfy the universal tendency known as “plurality split” (Smith-Stark 1974): if a language treats differently two sets of nouns, then those which are sensitive to number will be to the left of the following “animacy hierarchy” (Corbett 2000: 55-66), whereas those to the right will tend to neutralize number:

human > animate > inanimate referential > inanimate generic

Once again, the cognitive ground for this tendency derives from the high degree of discreteness that is characteristic of human referents. Conversely, the lower individuation typical of non-human beings explains why they tend more naturally to be coded as mass nouns: compare with Eng. cattle, furniture, vegetation, food, which are coded as singular whatever the actual quantity.

3.2.3. Possession

The grammar of possession is complex in Mwotlap (François 2001b: 419-632), but it is similar in outline to many other Oceanic languages (Lichtenberk 1985). Regardless of their distribution between Class I and II (3.2.1), nouns are divided into two watertight classes with regard to possession.

On the one hand, there is a closed set of about 125 inalienable nouns. They require a possessor to be overtly present immediately to their right, in the form either of a personal suffix (see Table 3), e.g. na-yñê-k ‘my legs/feet’, or of a postposed (unprefixed) possessor noun, e.g. na-yño tarak ‘the wheels of the car’. For these nouns, the absence of a possessor would be ungrammatical: *na-yño (?‘a foot’). Semantically speaking, inalienable nouns refer to relational notions, such as kin terms (têta-n ‘his sister/her brother’, êgnô-n Sera ‘Sera’s spouse’), body parts (na-mnê-k ‘my arms/hands’, nê-lwo bago ‘shark teeth’), part terms (na-lo êêm ‘inside of house’, na-yo qêtênge ‘tree leaves’) and other relational terms (na-he-k ‘my name’, na-tno-n ‘his/her/its place’).7

7 What is even more interesting for the typologist is probably the list of exceptions to these semantic motivations. For example, all body products (blood…) and internal parts (guts, liver…) are treated as alienable, because they are physically or conceptually separable from the body. See the discussion in François (2001b: 440-465), as well as contributions in Chappell & McGregor (eds, 1996).
On the other hand, all other nouns form an open set of alienable terms, which can appear unpossessed, e.g. n-ēm ‘a/the house(s)’. The possessor, if present, cannot be added directly; instead, this requires the mediation of a linker which receives the possessive morphology, e.g. n-ēm no-no-ngēn ‘our house’. To be precise, this linker must be chosen from among a set of four morphemes according to the semantics of the relationship involved. These four possessive classifiers are (here in their 3sg form): na-ga-n ‘food possession’, na-ma-n ‘drink possession’, no-no-n ‘general possession, stable relationship’, na-mu-n ‘temporary possession, relationship restricted to a particular situation’.

\[(13) \quad \text{Nu-suk gōh na-mu-k, ba na-ma-nmōyō.} \quad \text{ART-sugar here ART-TempP-1SG but ART-DrinkP-2DU} \]

‘This sugar is mine (to buy), but it’s for you (to drink with).’

For complex reasons, the syntax of alienable nouns seems to be currently gaining ground over inalienable patterns. Thus the inalienable form ive-n ‘his mother’, now obsolete, has been replaced by the formally alienable phrase tita no-no-n (originally an address term ‘his mum’). Similarly, compare ni-hyi-mem ‘our strength; (formerly) our bones’ with the more innovative pattern ni-hiy no-no-nmem ‘our bones’. This evolution is much stronger in Mwotlap than in any other language in the area.

These boundaries between types of possessed nouns are in turn cross-cut by formal contrasts between different categories of possessors. If we take the example of the inalienable noun (na-)he ‘name’, we observe a morphological difference between, on the one hand, the use of personal suffixes if the possessor is [+human] [+referential] (e.g. na-he-k ‘my name’; na-ha-n na-lgōvēn gōh ‘the name of this woman’); and on the other hand, the use of the unsuffixed form of the possessed noun if the possessor is either non-referential (e.g. na-he lōqōvēn ‘a woman's name’), non-human (na-he vōnō gōh ‘the name of this village’), or both (na-he vōnō ‘a village name’). Once again, the grammatical categories of Mwotlap have remarkably crystallised what is fundamentally a cognitive difference of perception between human specific referents—which are highest on the scale of individuation—and all the rest.
4. The mechanics of predication

A complete sentence may lack any argument phrase (see 5.1), but it cannot lack a predicate. For a language like Mwotlap, the syntax and semantics of predication involve more diverse patterns than the sole tense-marked verb-headed predicate. First, not all predicates involve Tense-Aspect-Mood (TAM) inflection; second, even those which are inflected this way can take other parts of speech than the verb as their head.

4.1. Four basic predicate structures

4.1.1. Direct noun predicates

Direct noun predicates cover both equative predicates strictly speaking (the subject X is identified as coinciding with a known item Y, e.g. *X is the doctor*) and ascriptive predicates (the subject X is ascribed to a set defined by the notion Y, e.g. *X is a doctor*). In both cases, the clause structure simply juxtaposes two well-formed NPs {XNP 〈YNP〉}:

(14) Imam mino 〈têytêybê〉.  
father my healer  
‘My father is a healer / is the healer.’

Like most Austronesian languages, Mwotlap lacks any copula: it is a property of nouns, as a part of speech, to be directly predicative (see Lemaréchal 1989, Launey 1994).

If the predicate head belongs to Class II (see 3.2.1), then it must bear its article. Incidentally, given that non-human arguments are normally substituted by zero anaphora, it is frequent to hear sentences that consist of only one noun phrase, the predicate:

(15) Yōy! 〈Na-naw〉!  
EXCL ART-salt.water  
‘Yuck! This is salt water!’

The same observation holds for possessive classifiers (3.2.3), which form a

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8 The following examples will signal the boundaries of the predicate phrase with pointed brackets 〈…〉.
subset of inalienable nouns. Thus the single word *Na-kis* /ART-FoodP:*1SG/* forms a perfectly complete sentence ‘That's mine (to eat)’; see also (13).

Negating a noun predicate requires the negation *et-*... *te*, still with no need of a copula (see also (2)):

(15’) 〈*Et- na-naw te*.  
\[ \text{NEG}_1 \text{ ART-salt.water NEG}_2 \]  
‘This is not salt water.’

We will come back to noun predicates in 4.1.4.3.

4.1.2. Locative Predicates

Locative predicates locate a subject X in space or time. Once again, in the absence of any copula, the predicate is constructed directly \{X\(_{SB}\)〈Y\(_{LOC}\)〉\} \indent X is at location Y. This predicate can be any well-formed locative phrase (see 5.3):

(16) 〈*Ithi-k*〈*Ostrelia*〉.  
\[ \text{same.sex.sibl-1SG Australia} \]  
‘My brother is in Australia.’

Based on this locative construction, the anaphoric adverb *aē* ‘there; on/for/with... it’ (see 38) provides the standard pattern for existential predicates (there is X), and hence for existential possessive predicates (there is my X, usual Mwotlap equivalent for English *I have X*):

(17) 〈*Ithi-k*〈*aē*〉.  
\[ \text{same.sex.sibl-1SG AA} \]  
a) ‘My brother is/was there.’  
b) ‘I have a brother.’ (*lit. There is my brother*)

4.1.3. Other Direct Predicates

Apart from nouns and locatives, a handful of lexemes are also able to form directly (i.e. without any extra morphology) a predicate: e.g. *itōk* ‘[be] alright’ (21), *yeh* ‘[be] far’, *haytēyēh* ‘[be] sufficient’, as well as numerals:

(18) 〈*Yeh meh*).  
\[ \text{be.far too.much} \]  
‘It's too far.’

(19) 〈*Ithi-k*〈*vētēl*〉.  
\[ \text{same.sex.sibl-1SG three} \]  
‘I have three brothers.’ (*lit. My brother is three*)
To this category of direct predicates, one could add certain linkers and subordinators, e.g. *qeُle ‘[be] like’, *veg ‘[be] because’:

(20) \(\langle \text{Qele le-} \text{pnō nōnōm} \rangle\).
    like LOC-village your
    ‘It's like in your country.’

(21) \(\langle \text{Et-} \text{veg te so n-} \text{eh itōk} \rangle\).
    NEG1-because NEG2 COMPL ART-song be.good
    ‘It's not because the song is nice.’

4.1.4. TENSE-ASPECT-MOOD PREDICATES

The last type of predicate consists in characterising a subject X with a state of affairs or property P, in such a manner that P is assigned to a particular situation, is presented in its time perspective, and comes endowed with a certain modal value. This can be called a “Tense-Aspect-Mood predicate”; it is easily recognisable through the presence of a TAM marker (4.2). As we shall see, these predicates may have not only a verb as their head, but also an adjective or a noun.

4.1.4.1. Verbs in TAM-predicates

Being the head of a TAM predicate is practically the only syntactic position a verb may take in a sentence (but see 5.2.2). A verb without a TAM marker does not form a valid predicate:

(22) Imam \(\langle \text{ne-} \text{mtiy} \rangle\).
    father STA-sleep
    [\*Imam \text{mtiy}.
    ‘Dad is sleeping.’
(22’) Imam \(\langle \text{me-} \text{mtiy} \rangle\).
    father PFT-sleep
    ‘Dad has fallen asleep.’

The syntax of verb-headed predicates will be further detailed in section 5.

4.1.4.2. Adjectives in TAM-predicates

Adjectives, which otherwise differ from verbs in their ability to modify nouns (3.2), share with verbs this property of mediate predicativeness: contrary to nouns and other direct predicates, adjectives can only form a predicate if they are combined with a TAM marker.
Generally, but not necessarily, this marker is the Stative $ne$.

(23)  \[ N-êlê-y \quad (ne-mlêglêg). \]
\[ \text{ART-hair-3PL STA-black} \]
‘Their hair is black.’

The Stative$^9$ ascribes a stable property to the subject at a given point in time, regardless of any aspectual or temporal boundaries. Conversely, other markers, like Perfect $me$- or Apprehensive $tiple$, will put this property in a time perspective, endowing it with aspectual limits and/or with a marked modal value:

(23$'$)  \[ N-êlê-y \quad (me-mlêglêg). \]
\[ \text{ART-hair-3PL PFT-black} \]
‘Their hair has turned black/has darkened.’

(23$''$)  \[ N-êlê-y \quad (tiple mêlêglêg). \]
\[ \text{ART-hair-3PL APPREH black} \]
‘Their hair might turn black.’

This mechanism has important semantic implications, as the stative property ‘[be] black’ now reads as a dynamic process ‘darken’. The capacity for adjectives to combine with just the same TAM markers as verbs explains why the lexicon of Mwotlap manages not only without a stative copula (Eng. $be$), but also without any dynamic copula (Eng. $become$, $turn$). Indeed, the notion of quality change present in our verb $become$ or in our change-of-state verbs (e.g. $darken$) here simply results from the combination of an adjective with a non-stative aspect. We shall come back to this crucial point in 4.2.4.

Rather than considering that TAM predication turns adjectives into verbs, it is probably more correct to say that adjectives can be inflected in Tense-Aspect-Mood just like verbs, without ceasing to be adjectives.

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$^9$ We follow here the usage among aspect typologists (e.g. Comrie 1976:10) of designating with an uppercase letter the name of a formal category in a given language (e.g. “the Perfect $me$- of Mwotlap”), as opposed to the semantic concepts relevant to the typology of aspect (e.g. “the cross-linguistic properties of perfect”). Needless to say, a vernacular category labeled Perfect (or Stative, etc.) in a given language does not necessarily match all the properties of the general, supposedly universal, concept of the same name.
4.1.4.3. Nouns in TAM-predicates

The same observations apply to the set of nouns, which also appear to be perfectly compatible with all TAM markers. Certainly, this special sort of noun predicates is statistically limited, as most TAM predicates take a verb as their head (4.1.4.1), and most noun-headed predicates are constructed directly (4.1.1).

However, the combination of nouns with TAM markers is well attested in Mwotlap (François 2003a: 47-75). It takes place whenever an essential property—which is what nouns fundamentally code for—is seen as unstable with regard to aspect or to modality (e.g. *X has become a N*, or *X might be a N*…).

(24)  **Kê 〈mal et liwo〉.**

3SG CPLT person big

‘He’s already (become) an adult.’

(25)  **Kôyô ma-tayak kê, tô kê 〈ni-êntê-yô togolgol〉.**

3DU PFT-adopt 3SG then 3SG AO-child-3DU straight

‘They have adopted him, so that he (became) their legitimate son.’

(26)  **Nêk 〈te-lqôvên tô〉 en, togtô nok leg mi nêk.**

2SG CF₁-woman CF₂ BKG then:CF 1SG AO:married with 2SG

‘If you were a woman, I would marry you.’

Once again, it would be arbitrary—or ethnocentric—to stipulate that the nouns¹⁰ *et* ‘person’ or *lqôvên* ‘woman’ must have been converted into verbs (through zero-derivation?) before being able to enter a TAM predicate. It seems closer to truth, and in fact more challenging for linguistic theory (Nordlinger & Sadler 2000), to suggest that TAM inflection is just not a privilege of verbs, and can equally affect verbs, adjectives or nouns in Mwotlap. And still, to say that these three parts of speech merge in the same predicate slot, does not mean they are not easy to distinguish in other distributional contexts.

4.1.4.4. The limits of TAM-predication

Not all types of predicates may take TAM inflection. For example, locatives are not TAM-compatible:

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¹⁰ Notice that, unlike in direct noun predicates (15/15’), Class-II nouns here appear in their bare form, without the article *na-*. This is consistent with the semantic function of *na-*(3.2.1).
This point underlines the necessity to distinguish between the predicativeness of a given part of speech vs. its TAM-sensitiveness (François forthc. a). For example, the category of locatives is predicative (16) but not TAM-sensitive (16’); nouns are both; and so on.

4.2. Semantics of Tense-Aspect-Mood

After this syntactic presentation of Mwotlap predicates, we shall present here the most notable characteristics of the TAM system with regard to the semantics of its markers (François 2001a, 2003a). The paradigm of Tense-Aspect-Mood contains as many as twenty-six markers, fourteen of which are morphologically discontinuous but semantically non-compositional: e.g. me- ‘Perfect’, me-… tô ‘Preterite’; te- ‘Future’, te-… tô ‘Counterfactual’. Mwotlap has no auxiliary.

4.2.1. AFFIRMATIVE VS. NEGATIVE TAM

While most languages possess a separate negation morpheme which combines with TAM markers, in Mwotlap the polarity feature is included in the semantics of each TAM category. Thus, te-… is ‘affirmative Future’, and contrasts with tit-… te ‘negative Future’. Other languages also contrast affirmative vs. negative tense markers, e.g. Fula (Arnott 1970).

But what is even more striking is the general mismatch between the nineteen affirmative and the seven negative TAM, due to many markers being polysemic. Thus the single category of (affirmative) Prospective kê so ni-mtiy ‘he's going to sleep; he should sleep…’ (see 4.2.3) is negated sometimes by the Negative Future (kê tit-mitiy te ‘he won't sleep’), and sometimes by the Prohibitive (kê nitog mitimtiy ‘he mustn't sleep’). Symmetrically, several semantic distinctions that are made in affirmative clauses merge in negative contexts. For instance, such diverse sentences as Stative (22) kê ne-mtiy ‘he's sleeping’; Perfect (22’) kê me-mtiy ‘he's fallen asleep’; Preterite kê me-mtiy tô ‘he's been sleeping’; Aorist kê ni-mtiy ‘he slept…’ are all negated in the same way, with Realis Negative kê et-mitiy te ‘he's not sleeping; he hasn't slept; he didn't sleep…’.

These semantic overlaps between affirmative and negative markers account for the system's asymmetrical architecture (Table 4).
### Table 4. The twenty-six TAM categories of Mwotlap

<table>
<thead>
<tr>
<th>AFFIRMATIVE</th>
<th>NEGATIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete mal ...</td>
<td>‘not yet’ negation et-... qete</td>
</tr>
<tr>
<td>Remote complete mal ... tô</td>
<td>‘no longer’ negation et-... site</td>
</tr>
<tr>
<td>Permansive ... laptô</td>
<td>Realis Negative et-... te</td>
</tr>
<tr>
<td>Stative ne-...</td>
<td></td>
</tr>
<tr>
<td>Perfect me-...</td>
<td></td>
</tr>
<tr>
<td>Preterite me-... tô</td>
<td></td>
</tr>
<tr>
<td>Aorist (ni-)...</td>
<td></td>
</tr>
<tr>
<td>Polite imperative (ni-)... tô</td>
<td>Prohibitive nitog ...</td>
</tr>
<tr>
<td>Prospective so (ni-)...</td>
<td></td>
</tr>
<tr>
<td>Hodiernal future te-... qiyig</td>
<td>Negative Future tit-... te</td>
</tr>
<tr>
<td>Future te-...</td>
<td></td>
</tr>
<tr>
<td>Potential te-... vêh</td>
<td>Negative Potential tit-... vêste</td>
</tr>
<tr>
<td>Counterfactual te-... tô</td>
<td></td>
</tr>
<tr>
<td>Apprehensive tiple ...</td>
<td>Neg. Apprehensive tiple tit-... te</td>
</tr>
<tr>
<td>Static presentative ... tô</td>
<td>Ø</td>
</tr>
<tr>
<td>Kinetic presentative ... vatag</td>
<td></td>
</tr>
<tr>
<td>Time focus qoyo ...</td>
<td></td>
</tr>
<tr>
<td>Immediate complete qoyo ... êwê tô</td>
<td></td>
</tr>
<tr>
<td>Prioritive (ni-)... bah en</td>
<td></td>
</tr>
</tbody>
</table>

#### 4.2.2. Aspect without Tense

It is in fact problematic as to whether the domain of tense is at all grammaticalised in this system. Indeed, if we admit that tense encodes the deictic relationship between the reported state of affairs and the situation of utterance (Comrie 1985: 14), then it appears that the markers or Mwotlap are fundamentally ambiguous in this respect.

For example, the viewpoint suggested by the Complete marker in *kê mal leg* may be anchored in the moment of speech (hence ‘she's already married’), but it can also perfectly correspond to a past (‘she was already married’) or a future situation (‘she'll be already married’), without any change in form. In other words, *mal* indicates nothing more than Complete aspect (‘be already married’) with respect to any anchoring situation retrievable from context. The same demonstration could be made for the other TAM markers of the system: their
situational anchoring is always anaphoric, not deictic. To put it differently, we may say that Mwotlap grammaticalises aspect but not tense.

The only exception to this principle is the Hodiernal future *te-*... *qiwig*—in itself a typological oddity (Comrie 1985: 94). All attested examples of this marker are with reference to the present day of utterance (ex. 2); this deictic value is no doubt due to the meaning of its components before it was grammaticalised (*te- Future + qiwig ‘today’*).

In summary, Mwotlap brings together in a single paradigm portmanteau morphemes that convey at once aspect, mood and polarity.

4.2.3. **ASPECTUAL POLYSEMY**

Certain TAM markers in Mwotlap show surprising polysemy. One example is the Prospective: *kê so ni-mtiy* can mean ‘he'd like to sleep; he's going to sleep; he's falling asleep; he must/should/had better sleep; let him sleep!; he was supposed to sleep; he almost fell asleep; if/when he sleeps; for him to sleep’. Despite the variety of meanings, it is not too difficult to figure out the central mechanism behind them: some modal source—the speaker, the actor, or someone else—is aiming at a certain state of affairs as being the expected outcome of the anchoring situation. This fits well with the notion of “prospective” aspect in use among typologists (Comrie 1976: 64).

On a more theoretical level, this case illustrates the importance of construing a semantic model which, instead of requiring the describer to choose between ‘monosemy’ and ‘polysemy’, should precisely allow for their mutual articulation. While the many contextual values of the Mwotlap Prospective (volitional, deontic, imperative, purposive, conditional, frustrative…) do definitely constitute a set of semantically distinct interpretations, this polysemy can be shown to result regularly from the combination of a single, monosemic marker *so ni*- with different syntactic and discourse configurations. A solution to this paradox can be obtained by resorting to instructional semantics: the Prospective asks the addressee to calculate the correct interpretation from the context, through the identification of such parameters as the relevant anchoring situation and the relevant modal source (François 2003a: 218-257).

Sometimes, however, the polysemy of a marker defines a unique configuration, which is hard to subsume under a single widely-used name. In
this case, the choice of a label for the vernacular category necessarily involves a certain degree of arbitrariness. For example, the term “aorist” is endowed with quite different meanings among aspectologists, depending on the scholar tradition they belong to. We have chosen to follow the recent usage among French scholars (after Culioli 1978) of giving this name to a marker which is sometimes called “neutral”, “minimal”, “indefinite” or “zero” aspect, but whose mechanism seems to be more constraining than these terms suggest.

What makes Aorist ni- so challenging is its high polyfunctionality (François 2003a: 165-199). It codes for the succession of events whether in realis, irrealis or fictitious contexts (ex. 11, 43); for imaginary or counterfactual statements (26); for generic sentences and procedure descriptions (mōk in 12); for the expression of intent (36), instructions (40) and orders (6’, 7); for progressive aspect (6, 35, 42). Finally, it is also the form required with purposive or other irrealis subordination (ni-vey in 12), as well as realis result clauses (25). A first approximation would tentatively describe this ni- aspect as defining an “immediate new event”, as opposed to the “anticipated new event” expressed by Prospective so ni-. However difficult it may be to define the semantic matrix behind such a polysemy, it can be fascinating to find other languages of the world with surprisingly similar aspectual polysemies, like the “Aoriste” of Wolof (Robert 1996).

4.2.4. ASPECT, ACTIONALITY, AND LEXICAL PROPERTIES

Among the twenty-six markers of the system, some (like the Stative in (22)/(23)) trigger a stative reading of the predicate head; others (like the Perfect in (22’)/(23’)) a dynamic reading. Not surprisingly, inherently dynamic verbs—e.g. van ‘go’, tot ‘chop’, lep ‘take’—are compatible only with the latter, not with the former: thus van can combine with the Perfect (ma-van ‘has gone’), not with the Stative (*na-van).11

Crucially, however, the reverse is not true. Stative notions, which we would expect to be only compatible with stative TAM categories, can in fact combine

11 Only reduplication (François 2004b) has the power to change a bounded verb into an unbounded one: e.g. Stative *na-van, but na-vanvan ‘go habitually’. Similarly, compare gen ‘eat s.th.’ in (40), and gengen ‘eat [INTR], have o.’s meal’ in (43).
with any marker. In other words, all lexemes capable of referring to an unbounded property—whether stative verbs (hey ‘wear’, tēy ‘hold’), adjectives (gom ‘sick’, wē ‘in good health’) or even nouns (welan ‘chief’, bulsal ‘friend’)—are equally capable, with no derivation nor added morphology, of referring to the bounded, dynamic process that results in that same property (resp. ‘put s.th. on’, ‘grab’, ‘get sick’, ‘recover’, ‘become a chief’, ‘make friends’).

The regular polysemy of all these words can be shown to follow a unique two-phase pattern of the form \{event₁ + state₂\}. This semantic model (François 2001a; 2003a: 346-363), which can be called “Twofold Actionality Pattern”, articulates a [+bounded] initial phase₁ (e.g. mtiy ‘fall asleep’, mlēglēg ‘turn black’) with a [-bounded] resulting phase₂ (mtiy ‘sleep’, mlēglēg ‘be black’). It is then a property of each aspect marker to select either the first (cf. Perfect in (22’)/(23’)) or the second phase (cf. Stative in (22)/(23)) in the lexeme’s meaning. In other words, Mwotlap encodes in the grammar certain semantic distinctions which English encodes in its lexicon, such as the contrast between telic fall asleep and atelic sleep.

This “Twofold Actionality Pattern” hypothesis also proves powerful in accounting for several puzzling features of Mwotlap aspect, such as the ‘perfectal’ paradox mentioned by Sasse (2002: 210): “the perfectal aspect associates a change of state (perfectivity) with its resultant subsequent state (imperfectivity)”. This is how a single form of Perfect can be translated sometimes as a completed action (e.g. he has put my shirt on), sometimes as a present progressive (he is wearing my shirt)—see François (2003a: 82-104).

To sum up, the Mwotlap TAM system does not draw a simple boundary between stative and dynamic verbs. Rather, the line is drawn between, on the one hand, some verbs which are exclusively dynamic; and on the other hand, the vast majority of lexical units (the rest of the verbs, plus all adjectives and all nouns) which are neither inherently stative nor inherently dynamic, but are potentially compatible with both interpretations depending on their morphological marking in the sentence.
5. Arguments and other complements

We shall outline briefly the syntax and semantics of Mwotlap arguments: subjects (5.1), objects and valency issues (5.2), and oblique complements (5.3).

5.1. Subjects

Like most Oceanic languages, Mwotlap lacks a passive voice. In a transitive clause, the subject always corresponds to the active entity (the actor), with no constraint whatsoever upon animacy, definiteness or hierarchy among persons. Thus, while many languages would hardly allow sentences like *A tidal wave hit us* or *A stone cut my finger*, this is perfectly idiomatic in Mwotlap:

(27) *Awê! Ne-vet vitwag 〈me-hel〉 na-mmê-k!*
    EXCL ART-stone one PFT-cut ART-hand-1SG
    (lit. A stone has cut my finger)
    ‘Ouch! I just cut my finger on a stone!’

A typical case when an inanimate force acts upon an animate experiencer is the domain of physical feelings and uncontrolled states (hunger, thirst, heat, cold, sleepiness, boredom, giggles, fear, hiccups, sneezing, coughing and all diseases). Once again, the syntax of Mwotlap employs an active pattern here: {name of feeling\textsubscript{sub} + verb ‘do, touch…’ + person affected\textsubscript{obj}}.

(28) *No-gom momiy 〈m-ak〉 no.*
    ART-sickness cold PFT-do 1SG
    ‘I have malaria.’ (lit. The cold sickness has done me)

Even weather and “ambient” statements (Chafe 1970: 101) must formally take a subject, e.g. *mahê* (‘place, time’): *Mahê mō-qōn* ‘It's night’ (lit. the place has [become] night); *Mahê no-momyiy* ‘It's cold’ (the place is cold). An exceptional case of subjectless sentence appears in (8) *M-akteg?* ‘What's going on?’, with the question verb ‘do what’.

5.2. Verb phrase internal structure and valency change

Verb phrases are easily delimited by any of the discontinuous TAM morphemes, such as the negations (*Table 4*). Their internal structure is: \{ TAM\textsubscript{1} – predicate head\textsubscript{2} – incorporated object\textsubscript{3} – serialised verb\textsubscript{4} – adjective\textsubscript{5} – internal adjunct\textsubscript{6} – TAM\textsubscript{7} \}. As we shall see briefly, all these verb modifiers prove capable of affecting the argument structure of their head.
5.2.1. OBJECT INCORPORATION

The main case when a noun directly modifies a verb\(^\text{12}\) is object incorporation. Normally, objects appear as a full NP (Class-II nouns taking their article) outside the verb phrase (29). But sometimes, what is semantically the patient appears as a bare noun within the limits of the VP (see position of Preterite marker \(m\text{-}\ldots\ t\)):\

\begin{align*}
(29) \quad & \text{\textit{No} } \langle \text{\textit{m}-t\text{-}\textit{eq} t\text{o}} \rangle \text{ n\textit{-}m\text{\textls{6}}s \text{vitwag}.} \\
& \text{1SG} \quad \text{PRT}_1\text{-}\text{shoot} \quad \text{PRT}_2 \quad \text{ART-parrot} \quad \text{one} \\
& \text{\textquoteleft I hunted a parrot.\textquote权利}
\end{align*}

\begin{align*}
(29') \quad & \text{\textit{No} } \langle \text{\textit{m}-t\text{\textls{e}q}\text{t\text{-}\textit{eq}} m\text{\textls{6}}s t\text{o}} \rangle. \\
& \text{1SG} \quad \text{PRT}_1\text{-}\text{shoot:DUP} \quad \text{parrot} \quad \text{PRT}_2 \\
& \text{\textquoteleft I went parrot-hunting.\textquote权利}
\end{align*}

Contrary to \(n\text{-}m\text{\textls{6}}s\) in (29), the incorporated object \(m\text{\textls{6}}s\) in (29') is non-referential, having no other function than to define a sub-type of hunting. What results from this process of object demotion is a new lexical item, an intransitive “macro-verb” \(t\text{\textls{e}q}\text{t\text{-}eq} m\text{\textls{6}}s\) ‘to parrot-hunt’. The syntax and semantics of object incorporation in Mwotlap are thus identical to what has been observed in other languages (Mithun 1984; Givón 1984: 416).

This syntactic structure has two morphological corollaries. For one thing, the reduplication of the verb reflects the shift from a bounded event \(t\text{\textls{eq}}\) ‘shoot s.th.’ to an unbounded activity \(t\text{\textls{e}q}\text{t\text{-}eq}\) ‘shoot repeatedly > shoot virtually > hunt’ (see fn. 11). For another thing, the absence of the nominal article \(n\text{a-}\) is consistent with our earlier semantic observations on Class-II nouns (see 3.2.1). Despite the similarity between this structure and verb compounding, the verb and the incorporated noun still behave as two separate phonological words (2.2.2).

Even if new collocations are regularly invented, the incorporating pattern is essentially attested in a limited set of lexical collocations, as often in Vanuatu. As is generally the rule when such lexicalisation takes place (Mithun 1984: 848), the combinations most likely to deserve a lexical status correspond to those activities that are socially relevant in the speakers’ culture. Thus *\(t\text{\textls{e}q}\text{t\text{-}eq} q\text{o}\)

\begin{footnotesize}
\footnotesize
\,(12) A less frequent incorporating pattern allows nouns to indicate the manner of a verb: \(h\text{\textls{o}h\text{h\textls{o}l}} l\text{\textls{o}g\text{\textls{6}v\text{\textls{6}n}}\text{' talk (like a) woman',\text{ et } m\text{\textls{e}t\text{-}e-k 'see (with) my own eyes'.\textquoteleft} \textquotequoteleft}
\end{footnotesize}
‘pig-shooting’ would not make sense in Mwotlap, because there are no wild boars in this part of Melanesia, and killing pigs is not traditionally done by shooting (tēq) them, but by hitting them (wuh) with a club.

5.2.2. Serial verbs

A verb head is sometimes modified by another verb or two, hence forming a case of serialised verbs. Despite the wide variety of combinations attested, and the high productivity of this syntactic device, it is possible to identify two essential functions that can be played by verb serialisation (a third pattern will be mentioned in 5.2.3).

One is concurrent serialisation, whereby two simultaneous (never sequential) actions are performed by the same subject A (see also (5) /see know/):

(30) Bōybōy 〈mē-hēw tēy〉 me na-mtig.  
B. PFT-go.down hold hither ART-coconut
‘Boyboy has brought the coconuts down.’

The second pattern is causative serialisation, whereby a subject A causes B to do something (see also (3) /hit dead/; (10) /do sad/):

(31) Na-lo 〈me-hey matyak〉 no.  
ART-sun PFT-shine be.awake 1 SG
‘I was woken up by the sun shining.’ (lit. the sun shone me awake)

The modifying verb in a series is likely to affect the argument structure of its head. For example, (30) shows how a predicate phrase can be globally transitive although its head is intransitive; and (31) illustrates how two intransitive verbs can result in a transitive macro-verb. Incidentally, this possibility of serialising two verbs that share no argument at all constitutes a remarkable exception to the definitions usually adopted for verb serialisation (Durie 1997: 291).

As is often the case throughout Oceania (Crowley 2002: 172, Bril & Ozanne-Rivierre 2004) as well as in other parts of the world (Aikhenvald & Dixon forthc.), certain particular serialising patterns tend to specialise in the expression of certain grammatical functions. To take just one example, the transitive verb v(e)teg ‘leave s.o./s.th.’ is regularly used as a second member in a concurrent serial construction, to code for the comparative:
The issues raised by verb serialisation in Mwotlap, especially how it manages each verb’s valency, are discussed in François (2004a; fortc. b).

5.2.3. ADJECTIVES AS VERB MODIFIERS

An adjective can modify a verb to indicate the manner of the action: see (6)-(6’) hohole liwo /speak/big/ ‘speak loudly’. To the extent that adjectives can be viewed as a subset of verbs (4.1.4.2), this pattern might well be analysed as a third type of serial verb, that is, “event-argument” serialisation (Aikhenvald fortc.; François fortc. b): in a sentence like ‘you speak big’, the semantic argument of ‘big’ is not ‘you’, but the subevent ‘your speaking’.

Incidentally, this structure accounts for the paucity of manner adverbs (of the type loudly, heavily) in Mwotlap. Indeed, this function is fulfilled by plain adjectives in a serial pattern, with no need of creating adverbs by derivation.

5.2.4. VP-INTERNAL ADJUNCTS

Mwotlap does have a class of VP-internal adverbs however, which can appear nowhere else in the clause than as a VP modifier. They are sometimes called “adjuncts” (Crowley 1982: 162) to distinguish them from VP-external adverbs such as locatives (5.3). Examples include lok ‘back’ (3), meh ‘too much’ (18), kal ‘upwards’ (35), tiwag ‘together’, galsi ‘properly’. Some adjuncts historically emerged—or are currently emerging—from verbs in serial constructions, e.g. qêt ‘run out’ > ‘completely’; têy ‘hold s.th.’ > ‘Comitative’ (30); veteg ‘leave s.th.’ > ‘away from; than’ (32).

As is suggested by the latter examples, adjuncts can be transitive. This makes them capable of disrupting the argument structure of the predicate:

(32)  
Kê (nê-mnay veteg) nêk.  
3SG STA-clever leave 2SG  
(lit. he's clever he leaves you behind)  
‘He's cleverer than you.’

(33)  
〈Hey〉 na-trausis.  
AO:wear ART-trousers  
‘Put some trousers on.’

(33’)  
〈Hey goy〉 na-yêν den ne-nem mi na-trausis.  
AO:wear (across) ART-leg:2SG from ART-mosquito with ART-trousers  
‘Protect your legs from mosquitoes with trousers.’
In (33’), the adjunct goy does not only add to the verb hey its own semantic contribution (\(V + \text{goy} \) ‘do s.th. in such a way to obstruct, protect, impede, keep away…’); it also entails a complete shift in the argument structure of the VP. To be precise, two analyses could be proposed for (33’). A first approach would describe goy as an applicative, which promotes the beneficiary (\(\text{na-}yê\)ê) to the O function, simultaneously demoting the semantic patient (\(\text{na-}\text{trausis}\)) from the O slot towards the periphery, without fundamentally modifying each participant's semantic role (Dixon & Aikhenvald 2000). An alternate analysis would consider the sequence hey goy to form a new lexical macro-verb meaning ‘protect s.th. (using a garment)’; in this case, the formal shifting of arguments also implies a semantic reorganisation of the clause, whereby \(\text{na-}yê\)ê has become the patient of hey goy, while \(\text{na-}\text{trausis}\) has lost all patient properties and is now a genuine instrument. Both the syntax-oriented and the lexicon-oriented analyses seem to be relevant to account for this sort of adjuncts (François 2000b).

The power of reshuffling the geometry of arguments is characteristic of transitive verbs as well as transitive adjuncts. It has been proposed (Crowley 1987: 61; 2002: 52) to analyse such structures \({V+Adjunct}\) as a subtype of verb serialisation \({V+V}\). This analysis, in our view, unduly forces the facts, for adjuncts like goy do not qualify as verbs. It seems more fruitful to reverse the argument, and describe verb serialisation \({V+V}\) as being just a subtype of a larger pattern of verb expansion \({V+x}\). This powerful syntactic device, which consists in providing a verb head with certain lexical modifiers in order to build a new macro-verb, may involve verbs as well as adjectives, nouns, or adjuncts (François 2004a).

5.3. **Locative and oblique complements**

5.3.1. **Locatives and Directionals**

A locative phrase consists of one or more elements, in the following order: a space directional (e.g. hag ‘up’); a Class-II noun marked as a locative \(\text{le-} + \text{N}\) (e.g. \(\text{le-}pônê\) ‘in the village’); a locative adverb (\(hêyêt\) ‘in the bush’, \(aênag\) ‘before’); a place-name (\(\text{Motlap}\) ‘on Motalava’); a deictic (e.g. \(gên\) ‘there’, see 6.2.1). Unless they form the predicate itself (4.1.2), locative phrases appear outside the verb phrase.
Mwotlap makes frequent use of its six directionals *me* `hither` (7, 30), *van* `thither` (35, 36); *hay* ‘in’, *yow* ‘out’; *hag* ‘up’, * hôw* ‘down’ (43). Horizontal vectors are not encoded by anthropocentric strategies (English *right–left*, *in front–behind…*) but by a geocentric system. This four-quadrant system formally employs the same directionals as locally-based strategies, but with different meanings: thus *hay* ‘in’ / *yow* ‘out’ serve to encode the topographical axis ‘inland’ (34) / ‘seawards’ (9); and *hag* ‘up’ / * hôw* ‘down’ encode the cardinal axis ‘southeast [upwind]’ / ‘northwest [downwind]’. Because it is fundamentally based on the topography of islands and on the force of winds, this geocentric system reflects the history of the Austronesian navigators who peopled the Pacific (François 2003b; 2004c).

5.3.2. **PREPOSITIONS**

Despite taking exclusively human complements, the preposition *hiy* has primarily a locative meaning:

(35) \[ Kê ni-yemyem kal van hiy tita nonon! \]
\[
3SG AO-climb:DUP up thither LOC mother his
\]
‘He's climbing on his mother!’

But most often, this spatial value of *hiy* receives a figurative interpretation, as it codes for dative or for benefactive:

(36) \[ Nok se n-eh van hiy kômyô Wemal. \]
\[
1SG AO:sing ART-song thither LOC 2DU W.
\]
‘Let me sing a song to you and Wemal.’

Other prepositions include instrumental-comitative [*tiwag* *mi* ‘[together] with’ (26, 33’); ablative *den* ‘from (33’), than’; causal *veg* ‘because of, about’; and a purposive-oblique prefix *be*- glossed ‘for’.

6. **Complex sentences and discourse structure**

In Mwotlap, there are two ways for a sentence to be complex. One takes the form of overtly marked coordination or subordination (6.1). The other type is when two syntactically independent clauses appear to form a hierarchy in terms
of their pragmatic status or information structure. The key to these constructions is the set of deictic markers (6.2).

6.1. **Subordination**

The clausal complements of verbs of speech, thought, will and manipulation are introduced by a conjunction *so*:

(37) *Iqet ma-galeg [so gên so matmat].*

(god) PFT-do COMPL 1INC:PL PROS dead:DUP

(lit. Ikwet made that we should die)

‘Ikwet is the one who made us mortal.’

The same morpheme *so* also introduces reported speech (like *wo* in (8)), as well as certain conditional and purpose clauses. There is all likelihood that this subordinator *so* is also the historical source of the Prospective marker *so (ni-)* (4.2.3), even if both markers are now clearly distinct (cf. 37).

Relative clauses use a subordinator (*mey*) *a*. The relativised noun has to be explicitly cross-referenced inside the relative clause (here *aê* ‘anaphoric adverb’):

(38) *lô-qôñ [mey a dô me-leg tô aê en]*

LOC-day the.one SUB 1INC:DU PRT1-married PRT2 AA BKG

(lit. the day that we married in-it)

‘the day we married’

The relativisation strategy also serves to encode the presupposed element in cleft focus constructions:

(39) 〈*Têta-ndô) [a kêy so wêl kê en].*

sister-1INC:DU SUB 3PL PROS buy 3SG BKG

(lit.) ‘It’s our sister, that they’re going to marry (her).’

Finally, the polyfunctional particle * tô* (+ Aorist) is a subordinator expressing realis result (25) or irrealis purpose (12), as well as a coordinator (‘so, then’) in narratives (8, 43). The semantic contribution of the postclitic * tô* appearing in several aspect markers (see Table 4) is difficult to associate with these clause-linking functions.
6.2. Deictics and clause hierarchies

6.2.1. Deictics and discourse structure

Deictics in Mwotlap (François 2001b: 280-324) are organised into three degrees:

1) \( \text{gôh} \sim \text{agôh} \) ‘here, this (within the speaker’s sphere)’
2) \( \text{nen} \sim \text{anen} \) ‘there, that (within the addressee’s sphere)’
3) \( \text{nôk} \sim \text{gên} \) ‘here/there (to which I am pointing, whatever the distance)’

More original is the complementary distribution of the two allomorphic series, depending on the pragmatic status of the clause, and the syntactic position of the deictic therein. The “conclusive” forms \( \text{agôh}, \text{anen}, \text{gên} \) are required if, and only if, the deictic meets the final boundary of an affirmative statement (ex. 34). The “non-conclusive” allomorphs \( \text{gôh}, \text{nen}, \text{nôk} \) are normally required in all other syntactic contexts, that is: any position in questions, commands, exclamations, negative statements; and non-final position in affirmative statements, especially topic position (9, 13). Thus compare \( \text{nôk} \) and \( \text{gên} \) in (40):

\[
(40) \quad \text{Nêk gen mey nôk, nok gen mey gên.}
\]

\[
\text{2SG AO:eat the.one there[+concl] 1SG AO:eat the.one there[-concl]}
\]

‘You eat that one, I’ll eat that one.’

A corollary of this mechanism is its demarcative function. While non-conclusive deictics often suggest some sort of pragmatic incompleteness of the clause, their conclusive counterpart marks the end of an assertive utterance. In terms of the management of turn-taking in conversation, this normally coincides with a “transition relevant point” (Sacks et al. 1978) for the addressee.

6.2.2. Discourse backgrounding and clause hierarchies

Another connection between deixis and the organisation of discourse is drawn by the frequent phrase-final clitic \( \text{en} \)—originally a deictic. Its role is to signal the status of a phrase or clause as being background information, i.e. mental representations that are already present in the discourse or the context, and are supposedly shared by both the speaker and the addressee (Givón 1984: 239-267).
Due to this backgrounding property, this marker regularly codes for definiteness and anaphora (9), as well as topicalisation (11). But it may also have a whole proposition in its scope, which makes it almost always present in conditional (26) and other topic clauses (Haiman 1978), in restrictive relative clauses (38) or in cleft constructions (39).

When *en* affects a clause that is syntactically well-formed as independent, one striking effect of information backgrounding is to induce pragmatic incompleteness, and hence discourse dependency or even *de facto* subordination:

(41)  *Iqet mi-tiūn gēn en, gēn et-matmat te.*

(god) PFT-create INC:PL BKG INC:PL NEG-dead:DUP NEG2

(lit. Ikpwet created us, *y’vee*, we were not dying)

‘When Ikpwet created us, death was unknown to us.’

(42)  *Kimi galeg en, ne-het.*

2PL AO:do BKG STA-bad

(lit. You’re doing (it), *y’vee*, it’s bad)

‘What you're doing is wrong.’

The clause hierarchies created by this backgrounding strategy are pervasive throughout Mwotlap speech. Likewise, this clitic *en* provides the standard way to link events together in narratives:

(43)  *Tēlge galeg höw n-ep en, tô gengen.*

COL:TR AO:do down ART-fire BKG then AO:eat:DUP

*Kēytēl gengen bah nen en, mityi.*

3TR AO:eat:DUP finish there BKG AO:sleep

‘The three fellows made a fire (*y’vee*) and had their meal.

[When] they finished up their meal (*y’vee*), they fell asleep.’

When used in narratives, *en* often comes preceded by the deictic *nen* ‘there, close to you’ (6.2.1), to which *en* is etymologically related. The “addressee's sphere” designated by this *nen* must here be understood figuratively: it stands for the mental representations the addressee keeps receiving from the speaker during their dialogue (cf. uses of *là* in colloquial French). Hence in (43), *nen en* could be glossed as ‘there in your mind’, i.e. ‘as you know’. It thus looks as if *nen* were currently going through the same semantic shift as *en* evidently underwent earlier, from a spatial deictic value towards a discourse function of information backgrounding, and eventually a syntactic use as a clause linker.
This kind of grammaticalisation process recalls how the formal structures of language can be deeply rooted in the pragmatics of face-to-face interaction.

7. *A final note*

Of course, just a few pages are not sufficient to draw a comprehensive picture of a language. In order to be described with accuracy, each phenomenon should be discussed and illustrated in length. The characteristics of Mwotlap should be compared with other languages, whether on a genetic, an areal or a typological basis. Whenever possible, diachronical reconstruction should help assess the historical depth of each aspect of the grammar. This is the matter for further explorations and longer publications, some of which remain to be written.

Yet, even if we essentially had to stick to the main factual data, we have also endeavoured to briefly discuss the formal or functional implications of each grammatical structure. It is hoped that this short overview will help the reader situate Mwotlap in some of the debates currently taking place among typological linguists.
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Abbreviations
AA anaphoric adverb, AO Aorist, APPREH Apprehensive, ART article, BKG background marker, CF Counterfactual, COL collective, COMPL complementiser, CPLT Complete, DrinkP drink possession, DU dual, DUP reduplicated form, EMPH emphatic pronoun, 1EXC first exclusive, EXCL exclamative, FoodP food possession, IMP imperative pronoun, 1INC first inclusive, HF Hodiernal Future, LOC locative, LV labiovelar, NEG (realis) negation, PFT Perfect, PL plural, POLIT polite imperative, POS possessive classifier, PROH Prohibitive, PROS Prospective, PRT Preterite, QUOT quotative marker, REVER reversible, SG singular, STA Stative, SUB subordinator, TAM Tense-Aspect-Mood, TempP temporary possession, TR trial, VOC vocative pronoun.
References


