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Clause-linking strategies in Austronesian-Oceanic languages*

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This paper analyses clause-linking strategies in mostly Austronesian languages, with particular focus on the functions of informational and referential hierarchy strategies in the architecture of complex clauses. Informational (topic, focus) hierarchy and its markers, structure clauses as subordinate via the contrast between presupposition vs. assertion. Referential hierarchy and its markers (endophoric demonstratives and definite markers), are another subordinating strategy based on the contrast between already referential/backgrounded clause vs. asserted main clause. Paths of evolution leading from coordinators or from endophoric demonstratives to informational hierarchy markers and to subordinating conjunctions or constructions are more specifically discussed. It is argued that informational hierarchy and referential hierarchy strategies are inherent to the syntactic architecture of the complex clause.

1. Introduction

Austronesian languages display various clause-linking and subordinating strategies and devices involving less finite or non-finite verb forms (reduplicated or nominalised forms), tail-head cueing constructions, adpositional markers, distinct case-marking strategies for main and subordinate clauses, modal dependency (irrealis, aorist), aspectual dependency (see François, this vol.).

Here, the focus will be on the distinct functions of informational and referential hierarchy strategies and their markers in the architecture of complex clauses. Although these strategies belong to the domain of discourse for the former, and to reference tracking for the latter, they are projected onto the syntactic level and are an intrinsic

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part of the architecture of clause-linking. Informational hierarchy and its markers (topic and focus morphemes), structure clauses as subordinate via the pragmatic contrast between presupposed vs. asserted proposition; while referential hierarchy and its markers (endophoric demonstratives and definite markers), structure clauses as subordinate via the contrast between already referential vs. asserted information.

Section 2 provides some definitions on informational and referential hierarchy systems, their markers and their clause-linking functions. Section 3 illustrates some of their frequent functions in various Oceanic languages. Section 4 discusses a type of evolution leading from coordinators to topic markers and subordinating devices based on informational hierarchy. Section 5 analyses the complementary clause-linking functions of coordinators, pragmatic (topic, focus) markers, and deictic markers in Takia and Roviana. Section 6 deals with case-marking and focus strategies. Section 7 centres on the subordinating function of referential hierarchy (with demonstrative and deictic markers). Section 8 discusses the syntactic and pragmatic functions of clause-ordering. Section 9 concludes.

2. The syntax of information and referential hierarchy in clause-linking: Some definitions

Lambrecht (1994) defines information structure as “a component of grammar”, “[...] more specifically as a component of sentence grammar [...] in which propositions as conceptual representations of states of affairs are paired with lexicogrammatical structures [...].” Information structure is thus “a determining factor in the formal structuring of sentences” (Lambrecht 1994: 3, 5–6). The structure of the clause is thus conceived [...] “as a domain in which the different components of grammar – syntax, morphology, prosody, semantics, information structure– compete and interact with each other [...]”. (Ibid. 1994: 12).

Van Valin (2005) expresses similar views and discusses the linking algorithms between the various components and structural levels (syntactic, semantic, pragmatic).

2.1 Informational hierarchy: Focus, topic and their markers

In Lambrecht's view, the important categories of information structure are: (i) the contrast between presupposition and assertion; (ii) topic and focus; (iii) identifiability and activation (Lambrecht 1994: 5–6).

When projected onto sentence level, information structure creates hierarchy via the central contrast between the presupposed and the asserted clauses, expressed by a variety of syntactic, morphological and prosodic markers developed below.

Topics are frames, they are definite and presupposed entities already present in discourse and about which something is predicated (Lambrecht 1994). They have various degrees of salience, as contrastive or detached topics. By contrast, the focus is a restrictor, an operator with scope over the rest of the sentence (Krifka 2007).

Focusing usually involves the partitioning of the utterance between the focus and the presupposition. 1 The focus is the pragmatically non-recoverable element in an utterance (i.e. the assertion) (Lambrecht 1994: 207). Foci fall under various subtypes, informative-completive foci which are generally in situ, such as answers to questions (who wrote? – My father wrote); the focus may also identify (contrastively or exhaustively) a restrictive variable (it’s who did it).

Focus is marked by various devices, prosodic, syntactic (position, word order or specific constructions such as clefts), and morphological (with dedicated focus markers or focal operators, such as restrictive only, inclusive even, exclusive but, except, etc.).

In complex clauses, the focus clause is the asserted variable which restricts the validity of the presupposed proposition. Focus clauses are syntactically more integrated and embedded than topic clauses, as shown by the inverted word order of the main clause following the restrictive focus time clause (i) only when I heard him yell did I realise that something was wrong, or by the use of ‘that’ complementisers in clefts (ii) it’s when I heard him yell that I realised something was wrong.

By contrast, topic-comment structure is a looser type of informational hierarchy. In the architecture of complex clauses, clauses containing the presupposition may be detached to constitute the topic or frame, while the other clause is the assertion. Thus, in because they wanted to know more, they started investigating the whole matter (Lambrecht 1994: 196), the topic clause is an adjunct of the main clause, in a relation of ad-clausal subordination (van Valin 2005). Detached adjunct clauses generally indicate time, condition, cause, explanation.

2.2 Referential hierarchy: Demonstratives, deictic and definite markers

Referential hierarchy rests on distinct notions relating to anaphora and reference tracking. In Oceanic languages, this is another frequent clause-linking strategy, marked by endophoric demonstratives, deictic and definite markers which refer to the propositional content of a preceding clause or sentence as informationally back-grounded; their evolution into subordinators (complementisers) is a common and well-known process.

“When a presupposed proposition becomes a discourse referent and serves as an argument in another proposition, it may be linguistically designated with the same expression type as an entity (with a personal or a demonstrative pronoun).” (Lambrecht 1994: 78)

1. "Presupposed" is defined as "not part of the same assertion" as the main clause (Givón, 1980: 372).
Referential hierarchy and its markers structure clauses around the contrast between a clause with referential/backgrounded propositional content and an asserted clause. Referentially backgrounded clauses marked by endophoric demonstratives and definite markers are prone to embeddedness and syntactic subordination, as arguments or modifiers of another clause (see for instance Sections 5.4, 7.4).

Another function of demonstratives and definite markers is found in clause-chains, as in Takia (Section 5.5.2) where they encode sequential and consecutive dependency relations, or in correlative strategies.

2.3 Source of focus and topic markers

Clausal topics and clausal foci are relational constructions with functional differences: topics are frames for some other assertion about them; foci are restrictor variables. Despite such functional differences, some topic and focus markers have several common sources in Oceanic languages, the most frequent being coordinators or demonstratives (see Bril in press, Mithun 1988). Their functions and semantics are then context and structure dependent, varying with their syntactic domain and scope. They are distinguished by the grammatical construction or “constructional schema” (van Valin 2005: 131 sq.) onto which these markers are projected, and which contain morphosyntactic, logical-semantic, pragmatic and prosodic information which help discriminate their function. Demonstratives may develop into three distinct directions, (i) as topic or focus information hierarchy markers (see Section 7.3), (ii) as correlative markers and (iii) as full-fledged subordinators. Among coordinators, sequential coordinators (‘and then’) are a frequent source of topic markers. Focal operators often originate (i) from additive (‘and also’) and sequential (‘and then’) coordinators like xe in Nêlêmwa (Section 4.3), =ak in Takia (Section 5.1.3), =he in Manam (Section 7.2), or from additive-inclusive focus sensitive operators meaning ‘too, also, even’; (ii) from coordinators with constrastive-exclusive semantics ‘but’ (like nga in Tombunu (Section 4.1), nu in Tawala (Section 6.2)), and (iii) in a lesser degree from disjunctive ‘or’ coordinators.

When used as information hierarchy markers with distinct prosody, conjunctive morphemes link (i) the salient (phrasal or clausal) topic and the comment, or (ii) the focus and the presupposition (possibly with sequential, consecutive, inclusive or constrastive semantics). The prosody associated with information hierarchy signals the hierarchy between presupposition vs. assertion, a feature only compatible with subordination; coordinate clauses do not contain any presupposition.

Prosody further distinguishes topic from focus constructions: topic-comment often correlates with rising-falling prosody, while focal entities carry modified stress and salient prosody.

Topic, focus markers and demonstratives do not exhaust the types of informational hierarchy markers; position, clause ordering, T.A.M. markers are also widely distributed, but they will not be the core of this study.

2.4 Topic and focus strategies as clause hierarchy markers

In contrast with coordinate clauses which can neither be detached nor focused, subordinately clauses may undergo pragmatic structuring. In some Oceanic languages, the positional and morphosyntactic markers of informational hierarchy are the only actual markers of subordinate clauses. Kiss (2001: 1447) proposes that “languages can be classified typologically on the basis of how closely they reflect the discourse semantic structure of their sentences in syntax”. In some cases, informational hierarchy strategies and subordination (with complement or adjunct function) may thus be coextensive.

Besides, as pointed out by Lambrecht (1994: 69), some conjunctive markers have pragmatic properties revealed by their compatibility with focus or presupposition. Thus, in contrast with ‘because’, ‘since’ is incompatible with focus; this is illustrated by the impossible use of ‘since’ in a cleft construction, it’s because he had insulted me that I struck him (“it’s since…”), or as an answer to a question, why did you hit him? – Because he insulted me (“since he insulted me”). Some types of subordinators and subordinate clauses thus entertain close links with pragmatic properties.

In the structuring of complex clauses, focus strategies create hierarchy by subordinating the truth condition of the presupposed clause to an asserted and salient restrictor clause (informatively or exhaustively restrictive), which may specify the circumstances or conditions under which the presupposition holds true; they are syntactically more integrated.

Detached sentential topics involving the fronting of some adverbial clauses (condition, cause or time frames) are more loosely connected, as in after she arrived at the party. Kim saw Pat. In van Valin’s model of the layered structure of the clause, detached clauses constitute adsentential subordination and are adjoined to another clause in frame-comment constructions (van Valin 2005: 192–196). Detached sentential topics are outside the scope of main clause illocutionary force and of illocution and negation operators (Foley this vol.; Foley & van Valin 1985); while peripheral clausal subordination, in which ‘the subordinate junct is a modifier occurring in the periphery of a layer of the clause’, may fall within the scope of main clause illocution, as shown by Did Kim berate Pat because she kissed Chris? (van Valin 2005: 192–197). Clausal subordination subdivides into ad-core and ad-clausal subtypes: in Kim saw Pat after she arrived at the party, the after clause constitutes ad-core subordination, it modifies the core ‘saw Pat’; while in Kim berated Pat because she kissed Chris, the because clause constitutes ad-clausal subordination, it modifies the main clause.
In Kiranti languages, Bickel (1993: 24–25) mentions cases of adsentential subordination marked by the same markers as nominal topics. In Belhare, these detached finite topic clauses may also be focused by restrictive or additive focus particles.

Just as detached sentential topics are outside the scope of main clause illocution and negation operators, detached lexical topics are not syntactic arguments of a clause,\(^2\) they may even be extra-clausal, as in ‘other languages, you don’t just have straight tones like that’\(^3\) (Lambrecht 1994: 193).

2.5 Scope and domain

Topic and focus operate in different domains. Lambrecht (1994: 215) defines the focus domain as ‘constituents whose denotata are capable of producing assertions when added to presuppositions’. These constituents may be full propositions and clauses. Van Valin further refines the definition of the respective domains of topic and focus as follows:

“The domain of topic may be a constituent within the clause or a detached sentence adjoined to another one; the domain of focus is defined with a subdistinction between the ‘potential focus domain: the syntactic domain in which focus elements may occur’ and the ‘actual focus domain: the part of the sentence that is actually under focus.” (Van Valin 2005: 75).

Domain and scope are two essential notions to account for the varying functions of morphemes. According to their scope and syntactic domain, demonstratives and deictics, for instance, may function as NP determiners, as topic or focus markers, and as subordinators or clause-linking functors. Similarly, with variations in syntactic domain, scope and prosodic specificities, some types of coordinators come to function as topic or focus markers and may further evolve as subordinators (see Sections 4; 5.3; 8.2).

3. Information and referential hierarchy markers in clause-linking: Some case-studies

Presupposition, which is one of the key notions of information hierarchy falls under two types: (i) the type found in existential, categorical propositions such as this boy is small (often structured as topic-comment clauses in Oceanic languages), and

(ii) factual presupposition as in he is sorry that she didn’t come (in which the subordinate clause contains the presupposition: she didn’t come). By contrast with categorical propositions, thetic propositions such as it’s raining are sentence focus structures containing no presupposition, and in which focus and assertion coincide (Lambrecht 1994: 138, 213).

These logical types are often encoded by topic, focus and deictic markers which occur as delimiters between presupposition and assertion. Topic markers commonly occur in categorical judgements; they also have common clause-linking functions in relative, time and conditional clauses, less frequently in cause-result clauses, explicative clauses, in purpose and complement clauses (of perception, cognition, volition, command verbs). As pointed out by Haiman (1978) and Dik (1997), condition clauses frequently correlate with presupposition and topic frames. Yet, although topics are often presupposed, they cannot be equated with presupposition.\(^4\)

Various case-studies will now illustrate how informational and referential hierarchy operate as markers of syntactic hierarchy in clause-linking.

3.1 Sobei (svo, Oceanic, Irian Jaya)

There are few instances of true subordination in Sobei, clause-linking is mostly marked by coordinators or sequential linkers.\(^5\) The topic marker mau (re-)introduces an otherwise inaccessible entity; it appears in categorical judgement clauses (1) structured as frame-comment, in relative and time clauses structured in the same way; but conditional clauses are juxtaposed or coordinated by map ‘and then’ (Sterner & Ross 2002: 185).

3.1.1 Categorical judgement clauses

(1) Sobei (Sterner & Ross, in Lynch et al 2002)

Yafu=mau=to bano yafu.
fire=TPC=DEF enchanted fire
‘That fire was an enchanted fire.’ (Sterner & Ross 2002: 181)

3.1.2 Relative clauses

There are two types of relative clauses: one marked by the topic marker mau (2a), which refers to unanchored determination, asserted for the first time, while the other type, marked by enclitic demonstratives (\(\text{oxt}_1 =\text{tei} ‘\text{this}'\) or \(\text{oxt}_2 =sake ‘\text{that}'\))

\(^2\) The syntactic arguments are marked by anaphoric pronouns (Lambrecht 1994: 188).

\(^3\) Such detached lexical topics may not even be constituents (argument or adjunct) of the clause with which they are pragmatically associated, they are “syntactically autonomous, extra-clausal elements.” (Lambrecht 1994: 193).

\(^4\) “What is presupposed in a topic-comment relation is not the topic itself, nor its referent, but the fact that the topic referent can be expected to play a role in a given proposition due to its status as centre of interest”. (Lambrecht 1994: 151).

\(^5\) Such as ‘p and, sep ‘and then’, dep ‘and’, dop ‘once finished’, dosep ‘so that’, dawop ‘and’ (+NP), ‘and then’, dawop ‘and then’, map ‘then, so, consequently’, dasa ‘and so’.
or by definite markers (=te, =to), is used for already referential determination and information (2b). In the first type, the head of the relative clause is delimited by mau; in the latter type, the right boundary of the relative clause is marked by the deictic (dx1 =te ‘this’) or by an enclitic definite marker (=to ‘that’ or =te ‘this’) (Sterner & Ross 2002: 169–171).

(2) Sobei
a. E-yit mefne=mau [ri-fos-e Lea].
  3SG.R-take woman=TPC 3PL.R-name=3SG Lea
  ‘He married the woman they call Lea.’ (lit. he took the woman, they call her Lea) (Sterner & Ross 2002: 175)
b. U-be nyo [w-ar-ema=to] e-en sifa?
  2SG.Poss stuff 2SG-bring-DIR=DEF 3SG.R-be where?
  ‘Where is your stuff you brought here?’ (Sterner & Ross 2002: 175)
c. [Use [dai dafu-n=ma ri-fi=tei] yam=te
  matter two cross.sibling=3SG=fam 3PL.make=DX1 2PL=DEF
  a-fi tap.
  2SG-make NEG
  ‘Don’t you do this thing (sexual intercourse) that these two cousins did.’ (2002: 175) [the demonstrative ma refers to a fact known to both speaker and listener]

Relative clauses marked by mau are not embedded; while those marked by determiners and definite markers are more tightly integrated and embedded. Similar facts will be shown for Nélémwa (Section 4.3.2) and Takia (Section 5.4.1).

3.1.3 Time clauses

Time clauses may be headed by a topicalised and relativised circumstantial noun samo ‘time’ (3). The relative time clause is marked at its rightmost boundary by an enclitic demonstrative pronoun dx2 sake ‘that’ and a definite marker =to ‘that’ (or =te ‘this’) marking the presupposition.

(3) Sobei
a. Map [samo=mau [tidut er-enon dimo waridon] sake=to],
   so time=TPC together 3PL.R-stay house inside dx2=DEF
   ‘So at the time that they were all together in the house,
   Yusup=mau=to d-enon, e-rom moni sare.
   Joseph=TPC=DEF 3SG-stay 3SG-see sleep play
   Joseph was dreaming.’ (Sterner & Ross 2002: 175)

Without any time noun, clauses are structured as topic (time frame)-comment clauses (3b):

b. [[RI-dus pamo=mau=to] [tat damas=mau]] [pamo=to tapse].
   3PL-cut sago=TPC DEF beat knead=TPC sago=DEF NEG
   ‘(When) they had cut down the sago palm, pounded, kneaded (it),
   there was no sago.’ (Sterner & Ross 2002: 185)
   (lit. having cut down, pounded, kneaded the sago palm, there was no sago
   (it had magically disappeared).

The complex sentence in (4) illustrates the interaction of several markers: (i) sequential coordination with the enclitic coordinator =p; (ii) a relative clause headed by a locative noun marked as topic by mau (pede=mau) and as presuppositional by the deictic and definite markers sake=to; and (iii) a time frame marked as a topic clause by mau (e-tasan-ewo=mau):

(4) Sobei
E-w0=p e-w0=p e-be=mau e-w0=p [pede=mau
   3SG-go=and 3SG-go=and 3SG-CONST=fam 3SG-go=and place=TPC
   [tema=to e-fos-fe] sake=to e-w0=p
   father-3SG=DEF 3SG-call→ DEM=DEF 3SG-go=and
   [e-tasan-ewo=mau] mamuse.
   3SG-view-DIR=TPC empty
   ‘He went and went, he was the one (who) went and to the place his father had
   named, he went and (when) he looked/looking around, they weren’t there.’
   (Sterner & Ross 2002: 184)

While the English translation of e-tasan-ewo=mau mamuse requires a conjunctive time clause or a participial form ‘(when) he looked/looking around, it was empty’, Sobei actually uses a frame-comment construction.

3.1.4 Complement clauses with mau

Complement clauses may be marked as frame-comment clauses with contrastive meaning.

(5) Sobei
Map e-ski-i=mau ri-orpar.
then 3SG-command-3PL=TPC 3PL-be.unwilling
‘Then what she commanded them (TPC), they were unwilling to do/
They were unwilling to do what she had commanded them to.’
   (Sterner & Ross 2002: 185)

6. Mau (re-)introduces an entity in discourse (N and Proper N, but it does not appear on pronouns), be marks contrastive topic (and is often attached to a pronoun).
3.2 Kaulong (svo, Oceanic, New Britain)

Kaulong has various coordinators7 and few subordinators8 (Throop & Ross 2002: 409). The focus here will be on the functions of a definite postmodifier tin [NP tin] which marks already referential information, as well as on the functions of the topic marker and clause delimiting men. Men indicates contrast, a change of topic, sometimes a switch in identifiable referent (it is absent from most indefinite NPs), a fronted adverbial phrase (yesterday men) (ibid. 2002: 393–95). As a clause delimiting, it marks (conditional and counterfactual) frame clauses and appears in categorical clauses and relative clauses.

3.2.1 Categorical judgement clauses structured as topic – comment

(6) Kaulong (New Britain, Throop & Ross in Lynch et al. 2002)

Hiang 

3sg.m fem-tim men Susupa.

‘This (man) is Susupa.’ (Throop & Ross 2002: 393)

[tin men is fused as ti-men],

3.2.2 Relative clauses

Most relative clauses are marked by men; the definite head is marked by tin.

(7) Kaulong

Po tin 

[masang a-pi e Au e kum ta-p i men]

3pl dem male attrib-place p Au and work ren-2sg there tpc

khaul ponval misan in to yu.

card two only be com pig

‘Only two of these men from Au and who are working for you have pigs.’

(Throop & Ross 2002: 396)

3.2.3 Conditional, counterfactual and time-frame clauses

Time clauses have no other explicit marking than being marked as fronted and backgrounded frames by men.

(8) Kaulong

[Po me but mata yu men] ku lek-ak val akomen.

3pl come dance eye pig tpc irr fight-rec neg-abil

‘When they come (and) dance, they cannot fight with each other.’

(Throop & Ross 2002: 409)

'Before' clauses are expressed by using the perfective and the negation markers, they are correlated to the main clause by the coordinator ma:

(9) Kaulong

[Li lais hiang li pi om kur] ma hiang pir

3sg.fr coil.around 3sg.m go place neg pft and 3sg.m stand

e mir mir to li mi ehul

and stagger stagger com 3sg.fr inside plant.growth

awa sangga.

shoulder Tahitian.chestnut.tree

‘Before it (python) had completely coiled itself around him, he stood and staggered with it inside the plant growth of the Tahitian chestnut tree.’

(lit. it had not yet coiled itself… and he stood…) (Throop & Ross 2002: 391)

Condition clauses display an irrealis marker (ta)ku and are marked either as topic frames as in the preceding examples, or as restrictor foci as in (10); Kha marks the bracketed clause as a focused restrictor protasis for the following apodosis:

(10) Kaulong

Vat tin vala men [ku hun kha] vat hun ma hiang tin

3sg.f dem woman tpc irr die foc 3sg.f die and 3sg.m dem

masang men9 ku in li hiang hun pet kira titit-en.

man tpc irr live go 3sg.m die follow back spouse-3sg

‘She, the woman, should she die (foc), (then) she dies and he, the man, he will continue living (and) he dies following his wife.’

(Throop & Ross 2002: 393)

4. From coordinators to topic markers and other clause-linking functions

In Austronesian languages, some coordinators often develop into topic or focus markers (see Bril in press); this occurs via topic maintenance (with 'and' coordinators), via topic switch (with contrastive 'but' coordinators) or via correlative functions.

4.1 Borneo languages (Austronesian)

Various Borneo languages display such functional evolution; one such case is Timugon Murut, where am 'and' is also a contrastive topic marker and a clausal frame marker (11b).

(11) Timugon Murut (Borneo, Sabah)

a. Aku am (tmin)tutup ahu ak ra tunturing ti

1sg and (act.past)-shut.self 1sg just obv ricebin this

‘As for me, I just shut myself up in this ricebin.’

(Brewis & Levinsohn 1991: 38)

7. Ma ‘and’, u ‘and’, kuma ‘and then’, kama ‘and so’ (consequence), takuma ‘but’, si ‘and, but, and then, and so, sohi ‘instead, while’, va ‘or’ (alternation).

8. Reported speech is marked by the locative preposition po, and cause clauses are headed by the preposition epo 'about, with, for' (Throop & Ross 2002: 409).

9. Note also constrastive function of the topic marker men on the NPs ‘men’ and ‘women’.

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2nd proofs
In Tombunuo, the sequential connector on ‘and’ marks topic continuity whereas the adversative-constrastive connector nga ‘but’ signals topic shift, a fact noted in other Austronesian languages (Bril in press).

4.3.1 Sequential and topic marker xe

Like many Oceanic language, Nêlêmwa has a variety of coordinators and logical connectors (Bril 2002). Coordination, complementation and subordination are all attested conjunctive types (Bril 2002).

The sequential coordinator xe (formerly ke) has developed several functions, as topic marker and as conjunctive marker in some relative and (factive) complement clauses.

4.3.1.1 Sequential conjunctive marker xe

As a sequential marker, xe mostly appears sentence initially as in (17) where the first xe takes the preceding discourse as background and topical, and further elaborates on

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10. Nopo combines the completive and anaphoric no and the incompletive and forward-looking po, it marks the first part of the construction as the topic and points forward to the comment which follows (Miller 1991: 126-127).
it. The topic function of xe appears in the second occurrence of xe in (17), and marks the clause yo axe-ve ‘(what) you saw’ as the topic frame:

(17) Nêlêmwa
Na i shuwniny mwa Pwâ-Hivic: "xe yo axe-ve xe yo axe and 3SG do:thus seq Pwâ-Hivic conj 3SG see-dir TPC 2SG see o da?, fo 3daama-m?
instr what? there.is eye-poss.2SG

‘And Pwâ-Hivic then says: “so, (what) you saw (TPC), what did you see it with? Do you have eyes?”’ (Bril fieldnotes 1995)

4.3.1.2 Topic marker xe
Example (18) illustrates its use as a contrastive topic marker at constituent level:

(18) Nêlêmwa
Na hla xe hla khu na, na co xe yo khuxi and 3PL.FR TPC 3PL eat excrement but 2SG.FR TPC 2SG eat.TR caa-m mido food-poss.2SG taro

‘And as for them, they will eat excrements, but you, you will eat your taro-food.’

In the architecture of main and dependent clauses, the neutral order is Main–Subordinate; in the reverse order, the subordinate clause is topicalised and marked by xe. This holds for time and condition clauses. The only subordinate clause which cannot be topicalised are purpose clauses which are in a logically iconic order and are marked by the all purpose conjunctive marker me. Causal clauses also prefer the logical (cause-consequence) order (19a), rather than the syntactic order (Main–Subordinate). In (19b), the consequence is topicalised with xe.

(19) Nêlêmwa
a. Puxe-t khîlû i ye me kio i haxa hma shaya. cause illness prep 3SG conj neg 3SG almost a.lot work ‘Because of his illness, he almost does not work any more.’

b. Kio i haxa hma shaya (xe) puxe-t khîlû i ye. neg 3SG almost a.lot work (TPC) cause illness prep 3SG ‘He almost does not work any more because of his illness.’

4.3.2 Relative clauses with xe
As in Sobi and Takia (see Section 5.4.1), there are two types of relative constructions based on informational and referential status. In Nêlêmwa, relative clauses with xe bring unanchored, new information; while relative clauses with a demonstrative marker (20b) refer to known and referential determination (Bril 2001, 2002). This function of xe originates from two formerly conjoined clauses and two assertions.

(20) Nêlêmwa
a. Na fie pwaxi-n xe i khîlû. 1SG bring child-poss.3SG conj 3SG be.ill ‘I bring his child who is ill.’ (Bril 2001: 262)

b. Na fie pwaxi-n bai i khîlû. 1SG bring child-poss.3SG anaph 3SG be.ill ‘I bring his child who is ill.’ (Bril 2001: 262)

In contrast with relative clauses with xe (20a) which contain two assertions, relative clauses with a demonstrative (20b) are prosodically and syntactically more integrated, as proved by the optional deletion of the coreferent subject index in (20b), but not in (20a). Furthermore, relative clauses with xe are restricted to factive clauses which presuppose the existence of the entity (21a); if the referential status is uncertain, hypothetical (21b) or under the scope of a negation (21d), the irreals marker o then appears. Compare with relative clauses referring to already referential determination and marked by a demonstrative in (21c):

(21) Nêlêmwa
a. Fhe-dume hele xe caak.
bring-down.here knife cont be.sharp ‘Bring me a sharp knife (lit. a knife which is sharp’;
I know there is one) (Bril 2001: 268)

b. Fhe-dume hele o caak.
bring-down.here knife irr be.sharp ‘Bring me a sharp knife.’ (lit. a knife which would be sharp’;
if there is one) (Bril 2001: 268)

c. Fhe-dume hele bai caak.
bring-down.here knife anaph be.sharp ‘Bring me the sharp knife’ (Bril fieldnotes)

13. In Old Fijian, the clause coordinator ka ‘and, also, also plus’ headed a relative clause (Milner, 1972: 36); this function sometimes persists in Boumaa Fijian under the influence of church language, but clauses are now juxtaposed (Dixon 1988: 251–257).
4.3.3 Xe as a factive complementiser (perception or cognition verbs)

Whether in relative or complement clauses, xe and o appear contrastively as marking reals vs. irreals events. As a complementiser, xe marks the factive complements of perception or cognition verbs; whereas o appears with verbs indicating uncertain events (haîk o ‘not know if’, fweneng o ‘beware of’, havava o ‘hesitate to’) (Bril 2000: 448–460).

While the topic function may be associated with a slight pause (after xe), there is no pause between the head verb and the clausal complement. This function of xe also originates from two formerly coordinate clauses.

(22) Nêlêmwa (Bril fieldnotes 1994)

a. Na i u tâlà da mwaida ni kûû jahoot xe
   1SG i.I think up.up there in source CONJ
   3SG call-down here

   ‘And he hears up there at the source of the river that he is calling down here.’

b. Na kazaak xe na à Pum.
   1SG be.sure CONJ 1SG go Pum

   ‘I’m sure to go to Pum.’

(Bril 2001: 264)

c. I khacac o i à.
   3SG hesitate 1RR 3SG go

   ‘He’s unsure whether to leave.’

(2001: 268)

4.3.4 Discussion

As a sequential coordinator, xe ‘and’ (formerly ke) links clauses which are on the same syntactic level and express some logical and sequential reference between them. As a topic marker, xe delimits a frame and a comment clause. Its function as a conjunctive marker in some factive relative clauses and complement14 clauses also derives from originally coordinated clauses and assertions referring to independent events: the adnominal relative clause was originally a coordinate clause (from ‘I met the woman and she is learning Nêlêmwa’ to ‘I met the woman who is learning Nêlêmwa’). Similarly, the complement clauses (of perception or cognition verbs) originally expressed the perceived or cognitively apprehended event as a loosely correlated clause with additive or sequential semantics; this further syntactised as a verbal complement. Haiman shows that in Hua (Papuan) some types of complement clauses have different constructions:

14. Croft (2001: 351–353) points out that complement clauses often originate from coordinate or purposive subordinate clauses.

Sequential linkers (‘and then, and so’) order events in logical and time sequence and often express causal, consecutive or purposive relations. As they contain some implication, they are semantically asymmetrical, which accounts for their frequent cross-linguistic use as correlative markers in time, conditional and consecutive clauses.15 Correlative and implication markers are on the border line between clause coordination and subordination, as in another word and I leave or you call down or I scream!

5. Coordination, topic, focus markers and deictic strategies in clause-linking: The case of Takia

The focus will now be on Takia’s16 clause-linking strategies, which epitomise some types often found in Western Oceanic languages. Three markers will be analysed: (i) the coordinator and focus marker =a=k, (ii) the topic marker man, (iii) and the demonstrative markers nx2 an, nx1 en. Their clause-linking functions are based on informational or referential hierarchy (see Bril in press). Takia’s clause linking types include (paratactic) coordination, co-subordination, clause-chaining, and subordination for relative, complement and purpose clauses (marked by conjunctions or nominalisation).

5.1 Subordination

5.1.1 Adverbial clauses

Takia is described as having no conjunctively marked adverbial clause (Ross 2002: 241); adverbial clauses are marked by logical and semantic inferences,17 or by foreground-background strategies (see Verstraete this vol. for inferential encoding).

15. In Old French, apart from their coordinating function, both si ‘if’ (in modern French) and et ‘and’ could link a main clause to (i) a time adverbial clause, (ii) a conditional clause, (iii) a relative clause with a correlative morpheme and an anaphoric pronoun.

16. Takia belongs to the same North New Guinea cluster as Kairiru and Manam, though to different linkages: Kairiru and Manam are closely related (Schouten linkage); Takia belongs to the Vitiaz linkage.

17. Some clauses may be reversible without much syntactic change, and interpretation varies with sequential order.
5.1.2 Other subordinate clauses
Subordination appears mostly (i) for purpose clauses referring to events incomplete at the time of speech (23a), and (ii) for complement clauses of verbs of desire or request (23b); both are marked by the indicative predicate enclitic mood marker (w)h ‘(in order) to’ (Ross 2002: 246).

(23) Takia (SOV, Western Oceanic, PNG, Madang Province)
   a. Onj [anaa w-ul] wa-pal i ya.
   2sg food 2sg-eat INT 2sg-comme R
   ‘You came in order to eat.’
   (Ross 2002: 246)
   b. Inj nai [n-aaw a] i-bol a.
   3sg 1sg go INT 3sg-speak R
   ‘He told me to go.’
   (Ross 2002: 247)

The other main strategy is nominalisation with a possessive classifier (a-ne- or s-a-); this appears in negative existential clauses (24), in some negative complement clauses and some relative clauses (see below).

(24) Takia
   [May dugo ma-bol s-a-n] tia ya.
   1pl.exc what 1pl.exc-speak poss-3sg not.exist R
   ‘There is nothing we can say.’
   (Ross 2002: 240)

5.2 Subordination and clause-chaining
Subordination and clause-chaining are marked by clausal enclitics expressing sequential, chronological (before, after) or simultaneous events (while), as well as causal, explicative and conditional relations. These enclitics are former conjunctions, now mostly used as mood indicators (=go reals dependent, =pe irreals dependent) or aspect markers (=do continuative, =gu completive). Cause-reason clauses are marked by =ta (Ross 2002: 244; 1993: 65–66). Loose clause-chaining and complementation are marked by de (25) (Ross 2002: 243–45).

(25) Takia
   Pas nji-gire de Mait i-li-ag a.
   letter 1sg-write DEF Mait 3sg-see-1sg R
   ‘Mait saw me writing a letter.’
   (Ross 2002: 243)

While the co-subordinators =go and =de link events with some ‘natural’ connection, coordination with =(a)k connects events with speaker-imposed logical relation (Ross 1993: 58–59).

5.3 The coordinator and focus marker =(a)k
Coordination is essentially asyndetic in Takia, except between clauses where it may be marked by =(a)k which is cliticised to a clausal mood or aspect marking particle.

5.3.1 Clause coordination with =(a)k
=(a)k has no semantics of its own, the semantic relation is contextually inferable. It mostly refers to simultaneous, parallel, alternative events; it is also used for reported speech and for logical (causal) connections between events established by the speaker (vs. events with some ‘natural’ connection) (Ross 1993: 58–59).

(26) Takia
   Matu ulat nga-da=k a kris tamol pein yasal-da.
   senior work 1sg.do=ipf=ak dx2 Christian man woman 1sg.get=ipf
   ‘I do the work of an elder and I lead the Christians.’
   (Ross 1993: 59)

Consecutive relations are marked by the conjunction akot ‘and so, and consequently’ (the contraction of ak and the locative marker ote ‘yonder’) (Ross 2002: 243). The functions of =(a)k in clause-linking cross-cut the coordination-subordination dichotomy; it appears in constructions that are equivalent to both, including relative clauses (Ross 2002: 235).

5.3.2 Selective, informative and contrastive focus with =(a)k
The second important function of =(a)k is as a focus marker. It appears in polar questions involving some presupposition and is clitic to the informative20 focal expression (Ross 2002: 228).

(27) Takia
   a. Onj pein w-le=k?
      2sg.fr woman 2sg-see=ak
      ‘Have you met a girl?’
   (Ross 2002: 236)

Example (27c) is the answer to ‘what could you cook?’

(27c) Malkouk=ak sa-d anaai nji-nei a=n.
      white=ak poss-3sg food 1sg-cook iff=def
      ‘I could cook white men’s food.’
      (Ross 2002: 228)

18. After a vowel, they appear as =g, =p, =d.

20. Informative/completive focus (in answer to a question for instance) contrasts with restrictive/exhaustive focus.
The other functions of =(a)k appear in relative and complement clauses, where it contrasts with the enclitic definite marker =n (see Section 5.4).

5.4 Subordinating strategies: =(a)k vs. the definite clausal enclitic =n vs. nominalised subordinate clauses

In clausal subordination (relative, complement and some adverbial clauses), =(a)k marks asserted and unanchored information. It also indicates a looser syntactic bond than the definite enclitic =n (which also marks NPs as definite) and which indicates referential, presupposed information and stronger syntactic integration.

5.4.1 Relative clauses
A. =(a)k vs. =n construction

In relative clauses, the =(a)k vs. =n strategies are similar to those already encountered in Sobei or Nêlêmwa. =(a)k asserts some unanchored, focal determination while the more frequent =n strategy expresses referential and presupposed determination. They also correlate with definiteness: a definite NP appears with =(a)k constructions (28a), while an indefinite NP appears with =(a)k constructions (28b).

(28) Takia
a. Ab a [ony w-abi ya=n] ni Mait da lo house dx2 2sg 2sg-build R=DEF 1sg Mait com 3LOC.in
mu-mado da. 1EXC-stay 1PF
‘The house that you built, Mait and I are living in it.’ (Ross 2002: 230)

b. …iŋ aŋar [parapar na ya=k] kaek ma-ŋa=p … 3sg canarium platform loc R=AK one 1PL.EXC-take=IRR.DEF
‘… so we take one canarium nut which is on the bed and ...’
(Ross 2002: 231)

B. Nominalised possessive construction

Another possible backgrounding and subordinating strategy is the use of nominalised possessive construction in relative clauses.

(29) Takia
di-ani sa-n an.
3PL-eat poss-3SG dx2
‘Those (things) for them to eat.’ (lit. that (which is) their eating)
(Ross 2002: 231)

5.4.2 Complement clauses (perception, cognition, utterance, ability verbs)
A. =(a)k vs. =n

Again the difference between =(a)k vs. =n lies in the focal, asserted features marked by =(a)k vs. the presupposed and referential information status marked by =n. In (30a), the two clauses are asserted and the reported speech clause is more loosely concatenated; whereas in (30b), the complement clause is embedded, its propositional content is marked as presupposed and referential by the definite enclitic =n. Subordination in (30b) further appears in the modal opposition between reals and irreals; the irrealis wi- in (30b) has generic meaning and refers to a norm.

(30) Takia
a. Ago-go uya-n a-k du-bol.
  PRO-R=DEF good-3SG R=AK 3PL-speak
  ‘Then/so, they say it is good.’ (lit. thus, it is good they say) (Ross 2002: 242)

b. Bin [i-siti wa-n] i-loŋ a.
  Bin 3SG-read IRR-DEF 3SG-hear R
  ‘Bin has learnt/knows how to read.’
(Ross 2002: 246)

B. Nominalised complement clauses

Some complement clauses can also be nominalised with a possessive construction (31), similarly to the relative clause in (29).

(31) Takia
na man [nek du-fun-ag na-mat ane-n] ya-moi.
1sg TPC just 3PL-hit-1SG 1sg-die POSS-3SG 1sg-not.want
‘As for me, I just did not want to kill them.’
(Ross 2002: 248)

5.4.3 Reason clauses with =(a)k vs. =n

Reason clauses show the same twin constructions varying with asserted, unanchored, focal information with =(a)k vs. presupposed and referential information with =n. Though more data would be needed to confirm this, I interpret the clauses as equally asserted and coordinate in (32a), while in (32b), the reason clause is presupposed, backgrounded and marked as subordinate by =n.

(32) Takia
a. Oŋ u-VER a=k niʒε-n ta w-au na ya.
  2SG 2SG-fear R=AK matter-3SG NEG 2SG-go DUR R
  ‘You were afraid and for that reason you didn’t go.’
  (Ross 2002: 247)
  (my translation; Ross translates both sentences (a–b) as ‘because you were afraid you didn’t go, but suggests that the clause may be in apposition to niʒε-’)

b. Oŋ u-VER a=n niʒε-n ta w-au na ya.
  2SG 2SG-fear R=DEF matter-3SG NEG 2SG-go DUR R
  ‘Being afraid, you didn’t go.’ Or ‘You didn’t go for the reason that/because you were afraid.’
  (Ross 2002: 247) (my translation)

5.5 Clause linking and sequencing functions of dx2 an, dx1 e, en

Deictic markers have various clause-linking functions. The medial demonstrative dx2 an, and the proximal demonstrative dx1 e, en have pronominal and adnominal uses.
In their adnominal use [NP an – e, en], they mark definiteness: *mau an* 'that taro'; *an e* 'this story' (Ross 2002: 240).

(33) Takia

\[
\text{An goun tia ya.}
\]
\[
\text{dx2 dog not.exist R}
\]

'That is not a dog.' (2002: 240)

As a clause-linking marker and endophoric reference-tracking device, the medial deictic *dx2 an* has a heavy functional load (Ross 2002: 224).

### 5.5.1 Recapitulative function of dx2 an in sentence-initial position

In sentence-initial position, *dx2 an* 'thus, so' is recapitulative and cohesive, it refers back to a preceding clause or sentence (Ross 2002: 245).

(34) Takia

\[
\text{An misin a [du-palu ya=an] iy urat nek ago fu-n}
\]
\[
\text{dx2 mission dx2 3pl-come R=DEF 3.fr work CTRST thus base-3sg du-ga ya.}
\]
\[
3ri-do R
\]

'Thus, the missionaries who came, they started their work in this way.' (Ross 2002: 230)

### 5.5.2 Clause sequencing with dx2 an ... an... dx1 en

*dx2 an* and *dx1 en* are primarily paratactic links between discourse entities. Clauses are sequenced with *dx2 an*, while consecutive relations are marked with proximal *dx1 e(n)* 'here, this' expressing the immediate consequence of the preceding action (Ross 2002: 245).

(35) Takia

\[
\text{[Bog i-du] an [i-fun-ai de i-bal] an [supu-ro n wog eagle 3sg-descend dx2 3sg-kill-3pl DEP 3sg-say dx2 beak-3sg canoe lo i-sofute] en i-mat.}
\]
\[
in 3sg-ram dx1 3sg-die
\]

lit. the eagle descended, (dx2) he thought he would kill them, (dx2) his beak rammed into the canoe, dx1 he died

'The eagle descended thinking he would kill them, [but] his beak rammed into the canoe and consequently he died.' (Ross 2002: 245)

---

21. The demonstrative *en* signals the final boundary of the definite NP (and may only be followed by a quantifier; *e* is used when one or more modifiers follow the definite NP (as in relative clauses) (Ross 2002: 224).
validates the truth of what I describe”. The perceived event then follows the perception verb.

b. Ka-'mana navibo rgi' 'u/ba/vao.
look (3OU.INSCONS) in there really they are not
'The two of them looked (and saw) that they really weren't in there.'
(Haiman 1988: 61)

"[...] The inconsequential form is then used where the complement is not subjective, and, as a non-object clause, follows the verb of perception."
(Haiman 1988: 64)

Haiman then compares all the possible constructions of the complement clauses of perception verbs as follows:

'This may, then, be the best explanation for the use of the inconsequential construction for expression of the relationship between acts of perception and the acts perceived. The construction is used because none of the other available constructions is appropriate. They make unacceptable claims about the semantic relationship between the two events in question: either by claiming that the event perceived is already common knowledge (the relative clause construction), or by claiming that the event perceived is a physical product of the act of perception (the direct quote construction), or by claiming that the event perceived is purely subjective (the -gasi’gerund construction), or by claiming that the act of perception precedes and/or is the cause of the event perceived (the medial construction)."
(Haiman 1988: 65) [My italics].

The chaining (medial) construction which signals a consecutive relation such as you came up (and) I saw you implies that the event is prior to the perception; the reverse order with the same construction, I looked at you and consequently you came up, is unacceptable unless the intended meaning is that the perception is the cause of the event. Subordinating strategies are thus highly sensitive to semantic factors such as modality (reals, irrealis), reference and logical relations. The data in Takia might be analysed from such a perspective.

5.6.2 Clause-linking with =(a)k and dx1 e – en
Clauses marked by =ak and the endophoric dx1 e – en express consecutive and deductive relations (Ross 2002: 245). But constructions with dx1 e are subordinate-like, and based on referential strategy. In (38a), the rightmost boundary of the first clause is marked by final dx1 e, followed by a pause, [=ak1 e] (pause), the first clause is thus backgrounded, presupposed and subordinate, similar to a participial clause. In (38b), the pause is before en [(pause) =ak1 e] and dx1 en is in the initial position of the second clause, it stands as the propositional anaphora of clause 1, recapitulates its propositional content, and acts as a correlative marker expressing causal-consecutive relation.

2nd proofs
In (40), the condition clause (marked by the reason marker ta and the irrealis dependent morpheme =p) is marked as a topic clause by man:

(40) Takia
You nam gireŋ mi-gane ta=p man / ayər saen da.
water inst oil 1PL.EXC-do rea=IRR.DEF TP C canarium bad 1PF
(lit. because we mix the oil with fresh water (TPC), the canarium goes bad)
‘(If) we mix the oil with fresh water, the canarium goes bad.’ (Ross 2002: 244).

5.7.1 The contrastive conjunction ak man in coordinate clauses

The contrastive conjunction ak man ‘but’ occurs in sentence or clause initial position, after an intonation break; it indicates a topic shift between otherwise coordinate clauses.

(41) Takia
nai nor yu-palu ya, ak man on tía ya.
1SG.FR yesterday 1SG-COME R AK TPC 2SG GTM.EXIST R
‘I came yesterday, but you did not.’ (Ross 2002: 242)

5.7.2 Cliticised =(a)k man in subordinate clauses

In contrast with the conjunctive ak man ‘but’ in (41) above, in (42), the cliticised =(a)k man has scope over the topic clause to its left. The Dx2 are in initial position of the following clause of (42) is the propositional anaphora of the preceding frame clause, a correlative marker linking the frame clause and the clause which contains the main assertion.

(42) Takia
Ta i-win na i=k man| an dal na i-mul.
NEG 3SG-WIN DUR R=AK TPC DX2 PATH LOC 3SG-RETURN
(lit. he does not win [the race] TPC, (given) that he turns back)
‘When he does not win [the race], then he turns back.’ (Ross 2002: 244).

5.8 Discussion

Coordinate clauses with equal assertive/illocutionary force thus stand in contrast with clause-linking strategies based on asymmetric assertive force, using either (i) informational hierarchy (topic or focus) markers, contrasting presupposition vs. assertion, or (ii) referential hierarchy devices such as determiners or definite markers which may function as subordinators or as looser correlative markers.

A further strategy involving a differential case-marking system will now be analysed in Roviana.

6. Case-marking and focus strategies in clause-linking: The case of Roviana (Oceanic, Solomon Islands)

According to Corston (1996, 2002), the preferred clause-linking strategy in Roviana is coordination; subordination is extremely limited. Relative and complement clauses are marked by sapu (43b), but the latter are uncommon: the preferred strategy is to use (i) an epistemic modal such as gina ‘maybe’ rather than a matrix verb of cognition, or (ii) a conjunctive expression composed of ‘and’ coordinators and a quotative marker indicating epistemic doubt as in (43a).

(43) Roviana (Corston-Oliver, in Lynch et al 2002)

a. Mala hite si nau meke gua meke lopu ruku sa popoa.
afraid little ABS 1SG and say and NEG rain DEF place
‘I am afraid that it might not rain.’
( Corston-Oliver 2002: 496)

b. Matatagu se John sapu kote seke-i-a (e) Zima
fear ABS John COMP FUT hit-TR-3SG.O ERG Zima
se Maepeza.
ABS Maepeza
‘John is afraid that Zima will hit Maepeza.’ (Corston 1996: 30)

Adverbial clauses are restricted to conditional and time clauses and are headed by tootoso ‘while, when’, beto ‘after’, pude ‘if’. Adverbial clauses have a number of specificities which set them apart from other subordinate clauses: (i) they occur in clause-initial Focus/Topic position23 which is part of the subordinating strategy; (ii) they are optionally marked by the ‘focal’ marker si; (iii) they display neutral case marking (not the absolutive/ergative morphology found in main clauses); (iv) they have a distinct intonational contour; (v) they never contain new information in core argument positions (although they may in other syntactic positions) (Corston-Oliver 2002: 496).

Main clauses (as well as relative and complement clauses) thus display a split ergative system, while adverbial subordinate clauses have a neutral case system. In (44a–b), the subordinate clause is focused by si and the pronoun goi ‘you’ is in the neutral case24, while it is marked by the absolutive marker si (si goi) in the main clause. The

23. Roviana has the basic order [(top)VAO or (top)VS].

24. Absolutive pronouns are marked by si, while ergative and neutral pronouns are marked by the same paradigm. Proper nouns are marked as absolutive by se and as ergative by e. Other quantified NPs are marked as absolutive by si, ergative is unmarked (Corston 1996: 12–13).
“focus” and absolutive markers are homophonous, and perhaps historically related, with the focus marker possibly originating from the absolutive case-marker.

(44) Roviana
a. [Pude la goi pa popoa taqa rau pa Solomone si] if go 2sg.neu prep place poss 1sg prep Solomons foc
   kagu vagi meresina si goi.
   must gather medicine abs 2sg
   ‘If you go to my place in the Solomons, you must get some medicine.’
   (Corston-Oliver 1996: 26–27)

b. [Totoso koa goi pa korapa tropic si] kagu pezaku
   when stay 2sg.neu loc inside tropic foc must wash/hands
   lamo si goi.
   always abs 2sg
   ‘When you stay in the tropics, you must always wash your hands.’
   (Corston-Oliver 2002: 495–497)

Adverbial clauses expressing concomitant events (45) display the same neutral case marking system; they are marked as backgrounded by a reduplicated verb. Compare the neutral pronoun ri ‘they’ in the subordinate clause, with the ergative (ri) and the absolutive NP se Noki in the main clause:

(45) Roviana
[En-ene ri karau] tutiavi-a ri kara se Noki.
red-walk 3pl.neu two meet-tr-3sg 3pl.org two abs snake
‘(As) they were walking along, they met Snake.’
   (Corston-Oliver 2002: 497)

The neutral case marking system also appears in clauses which are not syntactically subordinate, but which are presupposed and backgrounded frames as in (46a): this points to another shared feature between information structure and subordination. Compare with the two coordinate clauses in (46b) where the arguments of both clauses are marked as absolutive as in independent clauses:

(46) Roviana
a. [Pa ngati seda si habotu gami] meke vivinei
   prep root frangipani foc sit 1pl.exc and chat abs
   gami kara Granpapa.
   1pl.exc two Grandpa
   ‘(As) we were sitting under a frangipani and then Grandpa and
   I were having a chat.’
   (Corston 1996: 32)

b. [Pa ngati seda si habotu si gami] meke vivinei
   prep root frangipani foc sit abs 1pl.exc and chat
   si gami kara Granpapa.
   1pl.exc two Grandpa
   ‘We sat down under a frangipani and Grandpa and I had a chat’.
   (Corston 1996: 32)

At constituent level, the “focus” particle si encodes contrastive topics as in (47a) or focus (47b–d) (ibid. 2002: 486).

(47) Roviana (Corston-Oliver, in Lynch et al. 2002)

a. Arau si na qua g(i)nani si pa butu huda.
   1sg.fr foc indef poss.1sg (nom) food foc loc head tree
   ‘As for me, my food is in the treetops.’
   (Corston-Oliver 2002: 486)

b. Esei poza-mu si ago?
   who name-2sg foc 2.fr
   ‘What is your name?’
   (Corston-Oliver 2002: 494)

c. Na sa si kote hena-i-a kohite veluelu?
   disj what foc fut eat-tr-3sg today evening
   ‘What are we going to eat this evening?’
   (Corston-Oliver 2002: 495)

d. Totoso sa si kote beto si goi?
   time what foc fut finish abs 2sg
   ‘When are you going to finish?’
   (Corston-Oliver 2002: 495)

Thus, neutral case marking, avoidance of newly mentioned arguments in adverbial clauses, and the occurrence of adverbial clauses in sentence initial (Focus/Topic) position, delimited by the focus marker si (indicating the restrictor variable), are part of the subordinating strategy contrasting presupposition vs. assertion, and are clearly related to informational hierarchy strategies.

7. Referential hierarchy: Demonstratives and deictics as markers of subordination and clause hierarchy in Tawala

The function of demonstratives in clause-linking and subordination will be further investigated, based on data from Tawala (Western Oceanic). Eastern Oceanic languages such as Mwotlap (Vanuatu, François 2000) display similar clause-linking functions for demonstratives. Nelêmwa uses them in relative clauses containing referential determination and in cleft constructions to mark the presupposed propositional content. Endophoric demonstratives are a frequent cross-linguistic mechanism of clause integration and subordination, optionally associated with a conjunctive marker, as in
French: il lui a menti, /ceci – cela – ce qui/ n'arrangea pas la situation 'he lied to him, / this – that – which/ did not improve the situation'.

In Tawala, deictics, demonstratives and definite markers have topic marking functions (see Section 7.3.), as well as clausal conjunctive functions, mostly in relative, time, conditional, cause, and explicative clauses. As in Takia (where Dx2 an marks sequential events and Dx1 en consecutive events) proximal and distal deictics are used for distinct clause-linking functions.

7.1 The polyfunctional coordinators po and ma

Tawala also displays polyfunctional conjunctions. The 'and' conjunctions po and ma are used for coordination and factive25 complementation. The contrastive coordinator ma 'and, but' has other functions (Bril in press): (i) as a correlative conjunction linking adverbial clauses to main clauses, as in (48a) where the reduplicated verb tugala marks temporal overlap and durative aspect, (ii) as a contrastive and restrictive topic marker (48b), or as a focus marker at constituent level (48b) or at clause level (48c).

(48) Tawala (SOV, Oceanic, Milne Bay, Papuan Tip, PNG)

a. I-tugu-tugala ma hi-woc.
   3sg-red-sit and 3pl-paddle
   'While he was sitting, they paddled.'  (Ezard 1997: 250)
b. Yaka a koyama ayahi-n'-ei ma a bayagohana i-wene-ya.
   so his lying at-3sg-abl and his life 3sg-take=3sg
   'So by his trickery he saved his life.'  (Ezard 1997: 250)
c. Geka ma polo a-matut'-e-ya.
   this/here foc pig 1sg-fear-TRV-3SG
   'It was here that I was frightened by the pig.'  (Ezard 1997: 197, 250)

While ma 'and, but' marks a change of subject or topic, po conjoins clauses with a close, consecutive semantic relation and rarely introduces a new topic (ibid. 1997: 243).

7.2 Subordination

Among adverbial clauses,26 cause clauses are marked by two postpositions uyahi-n'-ei and ugoli-n'-ei (lit. at-it-ABL) 'because of' and occur in the cause-result order (Ezard 1997: 237). Purpose of motion clauses such as he went to the river to bathe are generally juxtaposed and follow the motion verb. Time clauses (Section 7.4.1), are generally preposed to the main clause and are simply juxtaposed or correlated to the following main clause by ma 'and; po 'and' (with consecutive meaning), or they may be backgrounded with Dx2 naka (Section 7.4.2). Complement clauses also display various strategies, nominalisation, adpositional complements, conjunction with po 'and', the irrealis marker ipa and the demonstrative Dx2 naka (Section 7.4.3). Conditional clauses are usually in sentence initial position (Section 7.4.4).

7.3 Demonstratives as contrastive topic or focus markers

Our focus will now be on the functions of the medial demonstrative Dx2 naka27 'that, there' as a pragmatic topic and focus marker, and as a conjunctive marker in relative, condition, time and complement clauses. Its functions vary with its domain and scope. When preposed to an NP, naka has focal function (49a), as shown by the contrast with a neutral definite NP marked by na (49b).

(49) Tawala (Ezard 1997: 144)

a. Naka bada-na i-woe-woe.
   dx2 man-def 3sg-red-paddle
   'That man was paddling.'
b. bada-na i-woe-woe.
   man-def 3sg-red-paddle
   'The man was paddling.'

All three deictic grades (Dx1 geka, Dx2 naka and Dx3 noka) have constrastive topic or focus functions. Topic maintenance and prominence of NPs is marked by postposed demonstratives, such as Dx3 noka in (50a) and Dx1 geka in (50b) (ibid. 1997: 143–144).

(50) Tawala

   and town-def dx3.tpc town big very-3sg
   'As for the town there, it is a big town.'  (Ezard 1997: 143)
b. Ma [megayai geka] [naka meyagai dewadewa duma-na].
   and village dx1.tpc dx2 village good very-3sg
   'As for this village, THAT is a very good village.'  (Ezard 1997: 144)

Compare the topic function of postposed geka and the focal function of the following preposed naka in (50b).

25. Irrealis complementation is marked by ipa (irr mkr).
26. Prosodically, sentences begin with a higher onset and end with a lower coda than clauses.
27. The three deictic grades are: proximal Dx1 geka 'this, here', medial Dx2 naka 'that, there', and distal Dx3 noka 'that, over there' (out of speaker's or hearer's sight). They are reflexes of Proto-Oceanic *a/*na 'near addressee'; *o/*no 'distant from both speaker and addressee' (Ross 1988: 100).
7.4 The clause-linking functions of Dx2 naka

Dx2 naka has conjunctive functions in relative, complement and adverbial clauses.

7.4.1 Relative clauses with Dx2 naka ‘that, there’

The verbs of all relative clauses are marked as subordinate by reduplication. Relative clauses may be juxtaposed and embedded as in (51):

(51) Tawala

Kwasikwasi(-na) [pom u-gima-gima-e-ya] i-tutuma.
machete(-def) yesterday 2SG-red-buy-3BV-3SG 3SG-blunt

‘The bushknife that you bought yesterday is blunt.’ (Ezard 1997: 207)

Or they may be hierarchized as topic–comment clauses as in (52a – b), with postposed Dx2 naka28 marking the presupposed status of the information contained in the relative clause (ibid. 1997: 208–209).

(52) Tawala

house 3PL RED-build-3PL DX2.TPC 3PL-grow very

‘As for the houses which have been built [impers. 3PL], they are very big.’ (Ezard 1997: 209)

b. Meyagai noka [a-go-gale-hi naka] / meyagai village there 1SG RED-see-3PL DX2.TPC village
dewadewa duma-na.
good very-3SG

‘As for the villages which I saw, they are very big villages.’ (Ezard 1997: 209)

The relativized NP is often repeated in the main clause and indicates a resumed topic as in (52b). Topic-comment relative clauses are a common strategy.

7.4.2 Time clauses with naka

Time clauses are relativised time noun clauses with houga ‘time,’ they are optionally topicalised with naka and set the time-frame for another clause.

(53) Tawala

a. [Ma houga-na to-ne-nae (naka)] / houga i-apapoe duma.
and time-def 1PL-LOC-RED-go DX2.TPC time 3SG-bad very

‘As for the time we were going along, the time/weather was very bad.’ (Ezard 1997: 209)

28. The bracketing of clauses (64a-b) is Ezard’s, naka belongs to the relative clause. According to Ezard, they must be interpreted as nominal despite their clausal structure, because of the presence of the demonstrative topic marker naka. In my analysis, it is a topic-comment construction.

29. The bracketing of example (58) is Ezard’s, naka thus heads the second clause as a full focal NP: ‘As to your preaching to the people, that is not good.’

30. Complementation with po also follows the verb. This reflects the Proto-Oceanic SVO order rather than the new SOV order of NP arguments due to contact with Papuan languages (Ezard 1997: 221).

31. But some nominalised object complements occur before (like core-arguments).
Compare the three complementising strategies: with *naka* (57a), juxtaposed (57b), and with *po* and *‘and’* (57c).

(57) Tawala

a. *Hi-i-wogatala [naka apo iyowai hi-na-bagibagi].*
   
   3PL-DUR-plan 3SG-POT-work
   
   ‘They were planning how they would work.’ (Ezard 1997: 222)

b. *Hi-i-wogatala [hi-na-bagibagi].*
   
   3PL-DUR-plan 3PL-POT-work
   
   ‘They are planning to work.’ (Ezard 1997: 224)

c. *Hi-i-wogatala [po apo hi-na-bagibagi].*
   
   3PL-plan CONJ 3PL-POT-work
   
   ‘They planned to work.’ (Ezard 1997: 248)

7.4.4 Conditional clauses with optional *naka*

Condition clauses are generally in sentence initial position and are optionally followed by *dx2* *naka* (58), counterfactual conditions are marked by the hypothetical marker *inapa* or *itapa ‘if’* and are optionally topicalised with *dx2 naka* or correlated by the consecutive marker *yaka ‘so’.*

(58) Tawala

*I-na-dumol-i (naka) a-nae. *

3PL-pot-calm-3SG DX2.2PC 1SG-go

‘If it is calm, I’ll go.’ (Ezard 1997: 242)

7.5 Discussion

When used as conjunctive markers, demonstratives may express sequencing and consecutive functions (as in Takia), but they mostly function as subordinators (in relative, complement or adverbial clauses). As adverbial clause markers, they appear in time, conditional, causal and explicative clauses. Their semantics are contextual and the semantics of the clause complex are inferred and depend on other collocated morphemes (adverbs, conjugations or T.A.M. morphemes). Some of these morphemes are not always fully grammaticalised as conjunctions; some are endophoric demonstrative operators with conjunctive functions when their scope extends over a clause or sentence.

8. The syntactic and pragmatic functions of clause-ordering

Clause ordering is another pragmatic and syntactic indicator. Sequential (in line) constructions following the logical order of implication are the closest to coordination; they may dispense with connectors when the semantic relation is straightforward (as in *the doctor arrived, (and) he did not examine the patient*); if not straightforward, specific coordinators express the intended semantic relation (consecutive, adversative, counter-expectancy, etc.) as in *the doctor arrived, (but) he did not examine the patient*.

8.1 Some general facts

While the sequential and logical order of events is the neutral order for chronological and causal coordinate relations, non-chronological and anti-causal order is frequently used to express anteriority or concessive meanings. These coordinate clauses in inverted order are often coupled with time adverbs like ‘already’ to mark non-chronological events (ex. ‘I arrived and but John had already left’); they may also be coupled with negation markers as in Manam (ex. ‘I arrived and but John had not left’ meaning ‘I arrived before John left’). Similar clause ordering strategies are used for causal relations. As shown below, Manam and Koroa for example use anti-sequential order and focusing strategies to reverse chronological or logical (causal) relations.

8.2 From sequential coordination to subordination in Manam

Compare the sequential order of coordinate clauses with the coordinator =be ‘and’ in (59a) in Manam, with the inverted order associated with the focus marker (=be) in (59b). Reversing the sequential order and focusing with clause final, focal =be creates pragmatic hierarchy which is interpreted as subordination (see Bril in press for discussion).

(59) Manam (SOV, Oceanic, Papua New Guinea, Madang Province)

a. *Nôra mélépi nè-gu di-lába=be, tôgo u-pûra.*
   
   yesterday work CL-PASS 1SG 3PL.r=be.big=and NEG 1SG.r=go
   
   ‘Yesterday I had a lot of work and so I didn’t come.’ (Lichtenberk 1983: 524)

b. *Tôgo u-duma-ôô, Biêy u-lá=be, nêg 1SG.r=fix-2SG Bieng 1SG.r=be.
   
   ‘I didn’t help you (because) I went to Bieng.’ (Lichtenberk 1983: 548)

Adpositional causal subordination is used when the cause is backgrounded information; the cause clause is then in topic, sentence-initial position and is marked by the similative postposition *bô?âna ‘like’* which is the only subordinator in Manam (Lichtenberk 1983: 548).

32. The postposition *bô?âna ‘like’* has various subordinating functions (causal, manner, similative-comparison, conditional, and counterfactual irrealis conditional (Lichtenberk 1983: 372–75, 528–529, 533).
Inversion of the sequential and logical order disrupts the implication \( ((if) \ x \ then/so \ (y)) \) and creates asymmetry between clauses. This semantic asymmetry may be strengthened by informational hierarchy (topic or focus) devices or by referential hierarchy devices (demonstratives), as in Korafe.

8.3 From adversative coordination to concessive subordination in Korafe

In Korafe (Papuan), the linkers avata ‘that, but’ and amo ‘that’, are members of a set of originally demonstrative D2 markers, with topic/focus and conjunctive functions. As a clause-linker, avata ‘but’ conjoins clauses with adversative relationships or heads concessive apodoses; it also marks contrastive topics or focus. Functions vary with position and scope: as a contrastive coordinator in (60a), avata ‘but’ heads the second clause; as a concessive subordinator in (60b) avata occurs in clause-final position of the contrastive frame clause to which it belongs prosodically. The negation marker in the second clause bars the expected implication and triggers a concessive reading.

(60) Korafe (Papuan, Cape Nelson, PNG)


shrimp-gen kind-tpc crayfish-gen kind.like-be

‘Freshwater shrimps are like crayfish, but they are very tiny.’

(Farr 1999: 252)

b. [Nunda guka titfa-ghae avata], aimi jo 3s.gen back spine.red-com dx2.ct.frus that.agt neg
ga-y-ae e-raira.
spear-epen-not.do do-cust.3s

‘Although it (mangrove ray) has spines on its back, it does not sting (people) with them.’

(Farr 1999: 252)

The logical inversion of clauses, the different bracketing and scope of avata, modify its functions and readings. Compare with the simple additive coordinate clause in (61):

(61) Korafe

Bosivara-mo mindafu, a nunda tamo ingago-ri.

porpoise-tpc big and 3s.gen body black-be

‘The porpoise is big, and its body is black.’

(Farr 1999: 114)

Amo, also originally a deictic (a ‘that’ near addressee +-mo topic/focus marker) is used as a topic marker in categorical predications (62):

(62) Korafe

Rika-jawo-mo uafa-ri.

bird-name-tpc W.Wagtail-cop.3sg.fn

‘The name of (this) bird is (the) Willy Wagtail.’

(Farr 1999: 114)

It also marks condition clauses as presupposed subordinate frames (63a); compare with coordination in (63b), expressing consecutive relation.

(63) Korafe


1pl.excl neck-think-fut.1pl-fi dx2.t/f strength.do-fut.1pl-fi

‘If we reason well, we’ll become strong.’

(Farr 1999: 253)


1pl.excl neck-think-fut.1pl-fi and strength-do-fut.1pl-fi

‘We will reason well and we’ll become strong.’

(Farr 1999: 253)

Amo may also function as a complementiser, as in (64a), or in frame-comment relative constructions (64b); clauses are prosodically separated by a pause:

(64) Korafe

a. Nu kote-tira amo, uvu kafuru-ri.

3sg think-aor.3s.fn dx2.t/f water deep.water-be

‘He thought that the water was deep.’

(Farr 1999: 279)


girl garden-loc go-aor.3s.fn dx2.t/f 1sg-gen friend-be

‘The girl who went to the garden is my friend.’

(Farr 1999: 281)

9. Final discussion and conclusion

This study of clause-linking in Austronesian-Oceanic (and a few Papuan languages) has shown a variety of strategies (coordination, clause-chaining, subordinate clauses), marked by conjunctive markers, less or non-finite verb forms (reduplication, nominalisation), adpositional markers (mostly for cause or concomitance), mood markers (contrasting irrealis vs. reals markers) in clause-chaining (Takia), in conditional and some complement clauses.

The focus has been on types of subordination based on informational hierarchy (topic and focus markers), or referential hierarchy markers (articles, definite markers, demonstratives), as well as on clause ordering.

Clauses involving sequential, logical and causal continuity are mostly expressed by (+syndetic) coordination, clause sequencers, and clause chaining strategies; while less or non-finite clauses (such as tail-cueing strategies) are mostly used with resumptive, anaphoric and backgrounding functions (see Table 1 below). Case-marking is another possible strategy: in Roviana, adverbial subordinate clauses display neutral case marking (in contrast with the ergative-absolutive system of main clauses) and occur in sentence-initial position as adsentential foci/topic clauses. Similarly, in Hua (Papuan), conditional clauses, which are presupposed, are in the nominative, and Haiman (1980: 412) describes them as functional equivalents of Latin ablative absolute constructions (see Thompson & Longacre 1985: 200–203).
Similar facts occur cross-linguistically, in Dyirbal same reference is marked in topic chains with absolutive case, sometimes using antipassive detransitivisation (Dixon 1972: 71; cited in Dik 1997: 319). In Kiranti languages, adsentential topic clauses (which are outside the main clause) are marked with the ergative absolute, functionally equivalent to Latin absolute constructions (Bickel 1999: 74).

“The core function of ergative clauses in Kiranti is to signal a sentential topic, a frame for the main assertion. The ergative case marker indicates the source, the cause, as well temporal and spatial circumstances, it is used in tail-head linkages and has further been grammaticalised into a marker of causal subordination.” (Bickel 1999: 40–45).

Conjunct participles and absolute constructions actually fulfill the same adsentential, topic function. Informational structure and their morphemes are thus used as complex clause hierarchy markers and indicators of subordination, specifying the referential and informational status of the propositional contents (in a frame-comment template, or a restrictor clause – main clause template). Some of the informational structure markers often originate from a pool of connectors or coordinators: additive or sequential connectors express clause sequencing, logical and topic continuity, while contrastive-advversative coordinators mark topic shift, counter-expectancy and concessive values. In relative clauses (ad-nominal specifiers) and in complement clauses, the use of former coordinators reanalysed as subordinators often arises from the expression of some former additive asserted information, while the use of definite or demonstrative markers generally refers to backgrounded and referential information in the subordinate clause.

Referential hierarchy with endophoric demonstratives and deictic markers is another source of subordinating devices via propositional anaphora and presupposition, prior to some other assertion. They serve as tracking devices, like the 'the former, the latter', or as correlative markers, and they use the proximal-distal grades as distinct pointing or selective devices (see Culioli's notions of pointage and flèchage operations, 1990). Demonstratives also display pragmatic functions as focus or topic markers, generally indicating topic shift or contrast.

In many Oceanic languages lacking subordinating conjunctions, informational hierarchy strategies are the only markers of clause hierarchy; they are inherent to the syntactic architecture of the complex clause, not a peripheral discourse level added to the syntactic level. The mere fact that informational and referential hierarchy should be marked by syntactic morphemes and devices such as coordinators, demonstratives, clause order, case markers, is an additional indication that these levels are interconnected and inseparable from the grammar of clause complexes. To quote Lambrecht: “Pragmatically structured propositions are (...) paired with appropriate lexicogrammatical structure.” (1994: 334).

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2nd proofs
Abbreviations

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