

Appendix III

Appendix III contains the collected data discussed in this project. The words are grouped according to the characteristics of the initial phonological material of the base, that is, the nature of the onset and the quality and quantity of the initial vocalic element; phonemic patterning may also be a factor, and, if so, will be specifically noted. Orthography, phonetic transcriptions and translations are provided for each word. The individual base forms are presented with associated reduplications and Initial Change forms. In certain cases, the base forms are unavailable, either because a word occurs only as a reduplication, or because it did not arise during elicitation; in these instances, the bases are extrapolated from the reduplicated forms and labelled with (?). The reduplicative, IC, and combination of reduplication and IC morphemes are isolated as RED, IC, and RED/IC respectively.

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I. C/a:/ <pâ-> /pa:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC
pâkumu [ba:gəmu] “s/he vomits”	pâpâkumu [pæ:pæ:gəmu:] “s/he vomits repeatedly”	[pæ:]-	piâkumut [piya:gumot ^h] “(who) is vomiting?”	[iya:]-	piâkupâkumut [piyæ:gəbæ:gəmot ^h] “(who) is vomiting over & over?”	[piyæ:gə]
	pâkupâkumu [pægəpægəmu] “s/he is throwing up all over the place”	[pægə]-				
	tshika pâkupâkumu [tʃɪgəba:gəba:gəmu:] “s/he will vomit over & over”	[ba:gə]-				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC
pâpû [pa:bu: ^h] “s/he is laughing”	pâpâpu [pa:pa:bu] “s/he keeps laughing” nipâpâbin [nəba:ba:bin] tshika mishtapâpâbu [miʃtəbæ:bæ:buʔ] “s/he will keep laughing a lot”	[pa:]- [ba:]- [bæ:]-	piâpit [piyæ:bit ^h] “(who) is laughing?”	[iyæ:]	piâpiâpit [piyæ:piyæ:bit ^h] “(who) keeps laughing?”	[piyæ:]
pâshtaim ^u [ba:ʃteym] “s/he walks over it/ cracks it”	papâshtaim ^u [bæbæ:steym] “s/he cracks it here & there; hitting it in many places” pâshtapâshtaim ^u [bæ:ʃtəbæ:steym] “s/he keeps cracking it” (speaker not sure) nipâshtapâshtain [nəbæ:ʃtəbæ:steyn] “I crack it here & there”	[bæ]- [bæ:ʃtə]- [bæ:ʃtə]-	piâshtaik [piyæ:steyk ^h] “(who) is cracking it?”	[iyæ:]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC
pâshteu [pæ:ʃtɪw] “it is dry”			piâshtit [piyæ:stɪtʰ] “(what) is dry?”	[iyæ:]		
pâshtuepaniu [ba:ʃdwe:bənu?] “s/ he jumps, goes over s.t	pâshtapashtuepaniu [bəsɔ:dəbaʃdwebənyu] “s/he keeps jumping over something.” nipâshtapashtuepanîu [nəbəsɔ:dəbaʃdwe:bənyu] “I keep jumping over something”	[ba:sdə]- [ba:ʃdə]-	piâshtuepanîut [piyæ:ʃdwe:bənyutʰ] “(who) is jumping over something?”	[iyæ:]	piâshtapashtuepanîut [piyæ:ʃdəbaʃdwe:bənyutʰ] “(who) keeps jumping over something?”	[piyæ:ʃdə]
pâssitsheu [pa:sɪdʒew] “s/he is shooting at”	pâpâssitsheu [pa:pa:sɪtʃew] “s/he is shooting one after the other” pâssipâssitsheu [ba:sɪba:sɪdʒiw] “s/he shoots repeatedly” nipâssipâssitshin [nəbəsɪba:sɪdʒɪn] “I keep shooting”	[pa:]- [ba:sɪ]- [ba:sɪ]-	piâssâk [piya:səkʰ] “(who) is shooting at it?”	[iya:]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC
pâtshiku [pa:ɕɪgu:] “it drips (once)”	pâpâtshiku [papa:ɕɪgu:] “it drips, trickles a lot” pâpâtshikushinit [pa:pa:ɕɪguʃɪnɪtʰ]	[pa]- [pa]-			piâpâtshikut [piyæ:bæ:ɕəgʊtʰ] “(what) is dripping”	[piyæ:]
pâtshishinu [bæ:ɕɪnu:] [pa:ʃɪnu:] “s/he is falling” [pa:ɕɪtən] “falling”	pâpâtshishinu [bæ:bæ:ɕɪnu:] “keeps falling down” papâtshishin [bəba:ʃɪn] nipâpâtshishin [nəba:ba:ɕɪn]	[bæ:- [bə]- [ba:-	piâtshinit [piyæ:ʃɪnɪtʰ] “(who) is falling”	[iyæ:]		
patshishkuakanu (?)	papatshishkuakanu [pəpətʃskwa:gənu:] “he was flattened”	[pə]-				

II. C/a:/ <t â-> /ta:/'

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tâkunam ^u [dæ:gunom] “s/he holds it”			tiâkunâk [diyægônæk ^h] [diyæ:gunak ^h] “(who) is holding it?”	[iyæ] [iyæ:]		
tâkushkâtam ^u [dæ:guʃgæ:dɔm] “s/he tramples, steps on it (once)”	tâtâkushkâtam ^u [dæ:dæ:guʃgæ:tɔm] [dæ:dæ:guʃgæ:dɔm] [dæ:dæ:guʃga:dɔm] “s/he tramples, steps on it (one after the other; e.g. stepping stones), stepping on one thing repeatedly” nitâtâkushkatin [nta:ta:guʃga:dɔm] “I am stepping on something repeatedly” nitâtâkushkâtau [ndæ:dæ:guʃgæ:dɔw] “(I’m) trampling on mud with feet”	[dæ:]- [ta:]-	tiâkushkâtâki [diyaguʃgæ:dagi] “when s/he steps on it” tiâtâkushkâtâk [diyadæguʃgæ:dæ ^h] “(who) tramples on it”	[iya]-		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC
tâkusseu [dæ:gusiw] “s/he steps once”	tâtâkussepanu [dæ:dæ:guseβnu] “step on each one, one after another”	[dæ:]-				
tâpueu [dæ:bwew] “s/he is right, tells the truth”			tiâpuit [diyæbwit ^h] “(who) is right, tells the truth?”	[iyæ]-		
tâtinam ^U [da:dnom] “s/he touches it”	tâtâtinam ^U [da:da:dnom] “s/he touches it again & again” nitâtâtinitin [nda:da:dniɗɗ] “I am touching s.t. repeatedly” uî tâtâtinam ^U wi: tæ:tæ:dnəm “s/he wants to touch it over & over again”	[da:]-	tiâtinâk [diyædnak ^h] “(who) touches it?”	[iyæ]	tiâtâtinâk [tiyæ:tiyæ:dnak ^h] “(who) is touching it over & over” uâ tâtinâk wæ:tæ:dnak ^h “(who) wants to touch it over & over again”	[tiyæ:] i: > æ: (preverb) + [tæ:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC
tâtshipiteu [dæ:ɕɪbɪdiw] “s/he touches him/her/it (anim)”	tâtâtshipiteu [tæ:tæ:ɕɪbɪdiw] “s/he touches him/her/it (anim) repeatedly”	[tæ:]			tiâtâtshipitat [tiyatæ:ɕɪbɪdɔtʰ] “(who) is she touching over & over again”	[tiya]
tâtshishkueu [da:dr:ɕkwɔ:] “s/he kicks him (once)” nitâtâtshishkuau [ɲta:ta:tɕ:gu:] “I am kicking him/her repeatedly”	tâtâtshishkueu [da:daɕɪskwiw] [tæ:tæ:tɕkwɪw]	[da:] [tæ:]	tiâtshishkuât [tiyæ:tɪsɪkwatʰ] “(who) kicks him?”	[iyæ:]	tiâtâtshishkuât [tiyæ:tæ:tɕkwatʰ] “(who) is kicking him repeatedly; while she is kicking him”	[tiyæ:]
tâu [ta:wʰ] “s/he is (there); s/he exists; s/he is in a place”	ietâu (?) [(i)yeidɔw] “s/he's here & there; always there in that place” <i>Speaker not sure about this form.</i>	[(i)yei]	etât [etatʰ] “(who) is there?” tiât(?) [iyatʰ] “(where) s/he is”	[ɛ] [iya]	<i>n.b. Speaker considers etât “proper” and tiât “not proper”, “fast speech”.</i>	

III. C/a:/ <kâ-> /ka:/'

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kâneu [ga:neuw] [gæ:neuw]	kakâneu [gægæ:neuw] “hiding in different places (e.g. children)” nikakânaut [nægægæ:nawt ^h] “I am hiding them in different places”	[gə]-				
kâshînam ^u [gæ:ʃi:nom] “s/he wipes s.t.” kâshinâkanu [gæ:ʃi:nægənu] “s/he it is wiped” kâshinâkin [gæ:ʃi:nəgɪn] “wiper, baby wiper”	kakâshînu [gægæ:ʃinu] “s/he is wiping here & there”	[gə]	kiâshinât [kiyæ:ʃinæt ^h] “(who) wipes” e kâshinât [e: kæ:ʃi:næt ^h] “(who) wipes”	[iyæ:] [e:]-(e- conjunct)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kâshkâueu [ga:ʃgawiw] “s/he strikes, scratches it; strike s.t. and make a scratch across it”	kâshkâshkâueu [gaʃgaʃgawiw] “s/he scrapes it (anim) with an instrument; e.g. bannock burning - scraping off burnt parts” nikâshkâshkâuau [nəga:ʃga:ʃga ^w ɔw] “I am scraping it with an instrument” uî kâshkâshkâueu [wi: ga:ʃga:ʃgawiw] “s/he wants to scrape it with an instrument”	[gaʃ] [ga:]			kiâshkâshkâuât [giyæ:ʃga:ʃgawat ^h] “(who) is scraping it with an instrument?” uâ kâshkâshkâuât [wa: ga:ʃga:ʃgawat ^h] “(who) wants to scrape it with an instrument”	[giyæ:ʃ] i:> a: (preverb) + [ga:ʃ]
kâshu “s/he hides”			kiâshut [kiyæ:ʃut ^h] “hiding”	[iyæ:]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kâssipiteu [gæ:sibitəw] “s/he scratches him/her/it (anim) once”	kâshkâssipiteu [gæ:ʃgæ:sibitəw] “s/he scratches him/her/it (anim) repeatedly” nikâshkâssipitâu [nəgæ:sgæ:sibidaw] “I scratch him/her/it (anim) repeatedly”	[gæ:ʃ] [gæ:s]			kiâshkiâssipitât [giyæ:sgiyæ:səbədət ^h] “(who) scratches him/her/it repeatedly” kiâshkâssipitishk [giyæ:ʃga:sibidɪʃk ^h] “(who) is scratching someone?”	[giyæ:s] [giyæ:ʃ]
kâssipitsheu [ga:sipitʃiw] “s/he rakes (not repeated, scratches once)”	kâshkâssipitsheu [ga:sga:sipitʃiw] “s/he is raking” nikâshkâssipitshin [nəga:sga:səbədʒɪn] [niga:sga:sipitʃɪn]	[ga:s]			kiâshkâssipitshit [giyæ:ʃga:səbədʒɪt ^h] [kiyæsga:sipitʃɪt ^h] “(who) is raking?” e kâshkâssipitshit [e: kæ:sga:sibidʒɪt ^h] “while s/he is raking”	[giyæ:ʃ] [kiyæs] [e:] (<i>e- conjunct</i>)

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kâtâu [kæ:dəw] [gæ:taw] “s/he hides it”	kakâtâu [gəgæ:taw] “s/he hides things here and there” uî kakâtâu [wi:gəga:dəw] “s/he will hide things here & there”	[gə]	kiâtut [kiyæ:dot ^h] “(who) hides it?” e kâtât [e: ka:dət ^h] “(she's good at) hiding things”	[iyæ:] [e:]- (e- <i>conjunct</i>)	kekâtât [ge:gæ:dət ^h] “(who) hides things here & there?” uâ kakâtât [wa: kəka:dat ^h] “(who) will hide things here & there?”	[ge:] i: > a: (preverb) + [kə]
kâtîpâu [ga:dibəw] “it has one step”	kâkâtîpâu [ga:ga:dibəw] “it is in steps, terraced”	[ga:]				

IV. C/a:/ <shâ-> /ʃa:/'

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
shashkaim ^u [ʃə]keym ^h “s/he lights it (e.g. a fire, lantern)”	shashashkaim ^u [ʃə]ʃə]keym] “s/he's lighting a fire one after another”	[ʃə]	shiâshkaik [ʃiyæ:]kek ^h “(who) is lighting it?” <i>(n.b. Although the base has a short initial vowel, the word is included in this category because of the IC patterning typical of a phonemically long vowel.)</i>			
shassikuâtam ^u (?)	shâshassikuâtam ^u [ʃæ:hæ:siɡwɑdɔm] “s/he fries things on the pan, on the stove” nishâshâssikuâtin [nɪʃæ:ʃæ:siɡwɑ:dɪn] “I am frying something”	[ʃæ:]			shiâshassikuâtâk [ʃiyəhæ:si:ɡwɑ:dɔk ^h] “(what) is she frying?” e shâshassikuâtâk [e ʃæ:hæ:siɡwɑdɔk ^h] “while she is frying it”	[ʃiyə] [e]- (e- conjunct) + [ʃæ:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
shâtshikatshiu(?)	shâshâtshikatshiu [ʃæ:ʃæ:ɕɪgəɕɪu:] “s/he rocks back & forth”	[ʃæ:]				
shâtshikatshipanû [ʃæ:ɕɪgəɕɪbənyu:] “s/he is sitting on floor & falls back (e.g.baby, toddler)”	shâshâtshikatshipanû [ʃæ:ʃæ:ɕɪgəɕɪbənyu:] “s/he is sitting on floor & falls back (repeatedly)” nishâshâtshikatshipanû [nəʃæ:hæ:ɕɪgəɕɪbənyu:] “I am sitting and falling back over & over”	[ʃæ:]	shiâtshikatshipanit [ʃiyæ:ɕɪgəɕɪbɪtʰ] “(I know) s/he is falling back”	[iyæ:]		
shâtshipanitau [ʃa:ɕɪbɪndɔw] “sticks tongue out; put arm in sleeve; pokes out”	shâshâtshipanitau [ʃa:ʃa:ɕɪbɪndɔw] “sticks tongue out. over and over” nishâshâtshipanitan [nɪʃa:ha:ɕɪbɪndæn] “I’m sticking my tongue out”	[ʃa:]	shiâtshipanitât [ʃiyæɕɪbɪndatʰ] “(who) is sticking his tongue out?”	[iyæ]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
shâtshishkuêpanu [ʃa:tʃkwebinyu:] “it pops its head up once”	shâshâtshishkuêpanu [ʃa:ʃa:tʃigwe:binu?] “it is popping its head up & down” nishâshâtshishkuêpanutin [nəʃa:ʃa:tʃsgwe:binutɿ] “I am popping my head up & down”	[ʃa:]	shiâshâtshishkuêpanut [ʃiyæ:ʃæ:tʃisgwe:binut ^h] “(what) is popping its head up & down?”	[iyæ:]	uâ shâshâtshishkuêpanut [wɑ:ʃæ:ʃæ:tʃisgwe:binut ^h] “(who) wants to pop its head up & down?”	i: > a: (preverb) + [ʃæ:]

V. C/a:/ < mâ-> /ma:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mâkâpû(?)	mâmâkâpû [mæ:mæ:gæbu] “s/he has big eyes”	[mæ:]			miâmâkâpit [miyæ:mæ:gæ:bit ^h] “(who) has big eyes?”	[miyæ:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mâkuâshkue [mæ:gwɑ:ʃgwih] “hold it in place”	mamâkuâshkue [məmæ:gwɑ:ʃgwih] “holding in different places to keep in place (e.g pinning clothes on clothesline)”	[mə]	miâkuâshkuaik [miyæ:gwɑ:ʃgweyk ^h] “(what) is holding it in place?”	[iyæ:]		
mâkuâtam ^u [mæ:kwæ:dəm] [mæ:gwæ:dəm] “s/he bites it” mâkuâtshu [mæ:gwæ:ʃɪw] “s/he is chewing (a child, dog is biting)”	mâmâkuâtam ^u [ma:ma:gwɑ:dəm] [mæ:mæ:gwæ:dəm] “s/he chews, bites over and over” nimâmâkuâtin [nəma:ma:gwɑ:dɪn] “I am chewing”	[ma:] [mæ:]	miâkuâtâk [miyɑkwɑ:dæk ^h] “(who) is biting it?” miâkuâtshit [miyægwæ:ʃɪt ^h] “(who) is biting?” e mâkuâtâk [e ma:gwɑ:tæk] “while s/he is biting it”	[iya] [iyæ] [e]- (e- conjunct)	miâmâkuâtâk [miyæmæ:gwædæk ^h] “(who) is chewing” e mâkuâtshit [e mæ:mæ:gwæʃɪt ^h] “(while) s/he is chewing”	[miyæ] [e]- (e- conjunct) + [mæ:]
mâkuauueu(?)	mâmâkuauueu [mæ:mæ:gwawu] “s/he taps down s.t.(e.g. snow, mud) using a shovel”	[mæ:]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mâkumissueu(?)	mâmâkumissueu [mæ:mæ:gumuswiw] “s/he chews gum” nimâmâkussuen [nə̃mæ:mæ:gusuwen] “I’m chewing gum”	[mæ:]			miâmâkumissuit [miyæ:mæ:gumuswit ^h] “(who) is chewing gum?”	[miyæ:]
mâkuneu [mæ:gunew] “press once”	mâmâkuneu [mæ:mæ:gunew] “s/he kneads, moulds it (anim); e.g.bread”	[mæ:]				
mâkûnitsheu [mæ:gunɸiw] “press, rub once”	mâmâkûnitsheu [mæ:mæ:gunəɸiw] “s/he kneads; giving a back rub, massage”	[mæ:]			miâmakuntshit [miyæ:mægunɸit ^h] “(who) is kneading?”	[miyæ:]
mâkushkueu(?)	mâmâkushkueu [mæ:mæ:guɸgwew] “s/he taps down s.t.(e.g. snow, mud) using feet”	[mæ:]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mâmîshkut [mæ:miʃgʊt] “me & you in turns” (<i>reduplicated form acting as a reduplicative base</i>)	mâmâmîshkut [mæ:mæ:miʃgʊt] “in turns, alternating; 'three, four, five of us in turns”	[mæ:]				
mâmishkutshipanu [mæ:mi:ʃkʊʒibənu:] “turn”	mâmâmishkutshipanu [mæ:mæ:mi:ʃkʊpʰʒibənu:] “it will change from season to season; it will change back & forth”	[mæ:]				
mânâtshinam ^u (?)	mâmanâtshinam ^u [mæmɪnæ:dʒɒm] “s/he manages, handles it carefully (e.g. makes food last)” nimâmanâtshinin [nɒmæ:mɪnæ:dʒɪn] “I make sure the food is not wasted”	[mæ:] [mæ:]			miâmanâtshinâk [miyæ:minæ:dʒakʰ] “(who) makes sure the food is not wasted?”	[iyæ:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mânâtueu [mæ:næ:dwew] [mæ:næ:dwɪw] “s/he is swearing”	mânamânâtueu [mæ:nəmæ:næ:dwɪw] “s/he keeps swearing” mâmanâtueu [mæ:mænæ:dwew] “s/he talks carefully, chooses his/her words” <i>(This form is unfamiliar to these speakers.)</i>	[mæ:]	miânâtuit [miyæ:næ:d(u)wɪtʰ] “(who) is swearing?”	[iyæ:]	miânamânâtuit [miyæ:nəmæ:næ:d(u)wɪtʰ] “(who) keeps swearing?”	[miyæ:nə]
mâshieu(?)	mâmâshieu [mæ:mæ:ʃɪw] “s/he disturbs him/her”	[mæ:]			miâmâshiat [miyæ:mæ:ʃiâtʰ] “(who) is disturbing him/her?”	[miyæ:]
mâshiku(?)	mâmâshiku [ma:ma:ʃigu] “s/he is doubled over in pain”	[ma:]			miâmiâshikut [miyamiyaʃigotʰ] “(who) is doubled over in pain?”	[miya] <i>(Note that the base also changes.)</i>
mâshîkueu [ma:ʃigwiw] “s/he fights, wrestles him/her”			miâshîtshit [miyæ:ʃiɕʒɪtʰ] “(I know) s/he is fighting with him/her”	[iyæ:]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mâssipanû (?)	mâssimâssipanû [mæ:simæ:sibinu?] “s/he, it (anim) is limping a lot (rapidly) seriously” nimâssimâssipitin [nəmæ:simæ:sibin] “I am limping”	[mæ:si] [mæ:si]			miâssimâssipinit [miyæ:simæ:sibɪt^h] “(who) is limping?”	[miyæ:si]
mâtamashtâu [mæ:dəmæ:ʃtΛw^h] “the pain is starting again”	mâtamâtamashtâu [mæ:dimæ:dəmæ:staw] [mæ:dəmæ:dəmæ:ʃtΛw] “s/he has throbbing pains; s/he has contractions, intermittent pains”	[mæ:di] [mæ:də]			miâtamâtamashtât [miyædəmæ:dəmæ:ʃtat^h] “(who) is having throbbing pains?”	[miyædə]

Base	Reduplicated Form	RED.	Initial Change Form		Reduplication/IC	RED/IC.
mâtisham ^u [ma:t:iʃ:ʌm] “s/he cuts it”	mamâtisham ^u [mæmæ:t:iʃum] “cut over & over in different places, e.g. using scissors cutting paper” nimamatishin [nəməma:dʃɪn] “I am cutting it in different places”	[mæ] [mə]	miâtishâk [miyæ:t:iʃæk ^h] “(who) cuts it”	[iyæ:]		
mâtueu (?)	mamâtueu [mæmæ:t(u)wiw] “s/he moans” nimamâtueu [nəməmæ:duwiw] “I am mourning”	[mæ]			mematuit [me:mæ:duwit ^h] “(who) is moaning?”	[me:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mâu [ma:w] “s/he cries”	mamâu [mæm:aw] “crying and crying” nimamân [nəməmæn] “I am crying and crying”	[mæ] [mə]	miât [miyæt] “(who) is crying?”	[iyæ:]		
mâushu [mawʃu:] “s/he is picking berries”	mamâushu [mamawʃu] [məmawʃu] “s/he picks berries in different places, from different patches” nimamâushun [nəməmawʃun] “I pick berries in different places, from different patches”	[ma] [mə]	miâushut [miyawʃut ^h] “(who) is picking berries?” e mâushut [e:mawʃut] “(while) s/he is picking berries”	[iya] [e:]-(<i>e-conjunct</i>)	memâushut [me:mawʃut] “picking berries from different patches”	[me:]

VI. C/a:/ <nâ-> /na:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nâshikuâpu(?)	nânâshikuâpu [næ:næ:ʃəgwa:bu] “there are tears flowing from his/her eyes”	[næ:]			niânâshikuâpit [niyæ:næ:ʃəgwa:bit ^h] “(who) has tears in her eyes?” mishta nânâshikuâpâtshi [me:sti næ:næ:ʃigwa:biɕi] “when her eyes are full of tears”	[iyæ:] [e:] (change to preverb)
nântu-pûshu [næntu:pu:ʃu:] “s/he looks for a ride”	nanântu pûshu [nəna:ntu:pu:ʃu?] “s/he is looking everywhere for a ride”	[nə]	niântu pûshit [niyæ:ntu:bu:ʃit ^h] “(who) is looking for a ride?”	[iyæ:]	nenântu pûshit [ne:næntu:pu:hit ^h] “(who) keeps looking for a ride?”	[ne:]
nâshikupanu [næ:ʃigobinu:] “it falls down (slowly, dropping coming down e.g. elevator; also: s.t. on sale i.e. prices going down)”	nânâshikupanu [næ:næ:ʃokopinu] “it keeps falling, dropping down” ninânâshikupitin [nimæ:næ:ʃukupidɪn] “I'm slowly coming down (e.g.in elevator)”	[næ:]	niâshikupanit [niyæ:ʃigobint ^h] “(what) is going down” e nâshikupanit [e: næ:ʃigobint ^h] “while it is going down”	[iyæ:] [e:]-(e-conjunct)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nâshueu [næ:ʃwew] “s/he follows him/her”	nanâshueu nænæ:ʃ:wew “s/he keeps following him/her”	[næ]	niâshuakut [niyæ:ʃæ:ɡʊtʰ] “(who) follows him/her?”	[iyæ:]	nenâshakut [ne:na:hagʊtʰ] niânâshakut [niya:na:hagʊtʰ] “(who) keeps following him/her?” tshe nâshnâshuât [ɕʒe næ:ʃnæ:ʒuʋʌtʰ] “(who) will keep following him/her?” uâ nanâshuât [wa: nana:ʃuʋʌtʰ] “(who) wants to keep following him/her”	[ne:] [iya:] [tʃe] <i>(changed form of future preverb ka)</i> + [næ:ʃ] i: > a: (preverb) + [na]
nâtam ^u [næ:dum] “s/he goes to get it”			tshe nâtâk [tʃe næ:tækʰ] “(who) is going to get it?”	[tʃe] <i>(changed form of future preverb ka)</i>		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nâtuâkan [næ:duwe:gən] “break in two”	nânâtuâkan [næ:næ:nd(u)wa:gŋ] “break in two repeatedly”	[næ:]	niâtuaik [niyæ:d(u)weyk ^h] “(who) is breaking it in two?”	[iyæ:]	niânatuaik [niyæ:næd(u)weyk ^h] “(who) keeps breaking it in two?”	[iyæ:]
nâtuâpanu [næ:d(u)wa:bənu:] “break in two”	nanâtuâpanu [nənæ:d(u)wa:bənu:] “break in two repeatedly”	[nə]				
nâuetinin [na:we:dŋɪn] “fold once”	nanâuetinin [nəna:we:dŋɪn] “folding (e.g. sheets)”	[nə]	niâuetinât niya:we:dŋat “(who) is folding (the sheets)?” e nâuetinât [e:na:we:dŋat] “(while) s/he is folding the sheets”	[iya:] [e:]- (e- conjunct)		

VII. Cu/a:/ <kuâ->

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kuânitshineu [kwa:nidənew] “s/he tickles him/her (in one place)”	kukuânitshineu [kukwa:nidənew] “s/he tickles him/her; tickle all over” nikukuânitinau [nəgʊgwa:nidnɔw] “I’m tickling him/her”	[kʊ] [gʊ]	e kuânitshinakinit [e kwa:nidənæ:gint ^h] “(while) s/he is tickling him/her”	[e]- (e- conjunct)	kuekuânitshinikut [kwekwa:nidənəgʊt ^h] “(who) is tickling him?” e kukuânitshinakinit [e:kukwa:nidənæ:gint ^h] “(while) s/he is tickling him/her”	[kwe] [e:]- (e- conjunct) +[ku]
kuâpishkau(?)	kuâkuâpishkau [gwa:gwa:piʃkɔw] “it is rusted (e.g. cooking pot)” kuâkuâpissiu [gwa:gwa:piʃyɔ:] “it (animate, stone, metal) is rusted (small thing rusted, e.g. spoon)”	[gwa:]			kuiâkuâpishkât [gwiya:gwa:bʃ:kæt ^h] “(what) is rusted?”	[gwiya:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kuâshkuetu [gwa:ʃgwe:du:] “s/he jumps up”	kuâshkuâshkuetu [gwa:ʃgwa:ʃgwe:du] “s/he is jumping here and there”	[gwa:ʃ]	kuiâshkuetit [kwiya:ʃkwetit ^h] “(who) is jumping?”	[kwiya:ʃ]	kuiâshkuiâshkuetit [gwiyaʃgwiyaʃgwedit ^h] “(I know) s/he is jumping over & over”	[gwiyaʃ] (n.b. also change to base)
kuâshkuetin [gwa:ʃgwetin] “I jump”	nikuâshkuâshkuetin [nəgwa:ʃgwa:ʃgwedɲ] “I am jumping here & there” [nəgwa:ʃgwa:ʃgwe:dɲ] “I jump over and over”	[gwa:ʃ]	e kuâshkuetit [e kwa:ʃkwetit ^h] “(while) s/he is bouncing”	[e] (<i>e-conjunct</i>)		
	uî kuâshkuâshkuetu [wi: gwa:ʃgwa:ʃgwe:du] “s/he wants to keep jumping”				uâ kuâshkuâshkuetit [wa: gwa:ʃgwa:ʃgwedit ^h] “(who) wants to keep jumping?”	[e:]- (<i>e-conjunct</i>) + [gwa:ʃ]

VIII. u/a:/ <uâ->

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
uâkapissipanu [wa:ga:bəsibinu:] “bending”	uâuâkapissipanu [wa:wa:ga:bəsibinu:] “keeps bending, curving”	[wa:]				
uâkâshinâteu [wa:gæ:ʃinæ:dew] “it has curving lines (curving once)”	uâuâkâshinateu [wa:wa:gæ:ʃinæ:dew] “it has curving lines (e.g. lines on road; s.t. has been drawn in curving lines)”	[wa:]				
uâpameu [wa:pəmheuw] “s/he sees him/her”	uâuâpameu [wa:wa:bməuw] “s/he is checking on it (anim); e.g. choosing fish; also checking out girls”	[wa:]	uiâpamât [wiyæ:bəmat ^h] uiâpamakut [wiyæ:bməgʊt ^h] “(who) does s/he see?”	[iyæ:]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
uâpâtam ^u [wa:pa:dum] “s/he sees it”	uâuâpâtam ^u [wa:wa:pa:dum] “s/he is checking on it” uî uâuâpâtam ^u [wi:wa:wa:pa:dum] “s/he tries to check on something”	[wa:]		[iyæ:]	uiâuâpâtâk [wiya:pa:dak ^h] “(who) is checking on something?” uâ uâuâpâtâk [wa: wa:wa:pa:dak ^h] “(who) is trying to check on something?”	[wiya] i: > a: (preverb) + [wa:]
uâshtepanu [wastebinu:] “it flashes once”	uâshtuâshtepanu [wastwastebinu:] [wastu]wastebinu:] “there is repeated lightning(lights flashing; fireworks; truck lights blinking; lights on Christmas tree blinking)”	[wast] [wastu]			uiâshtauâshtepinit [wiya:stəwæ:stebnt ^h] [wiya:stwiya:stebint ^h] “(I know) there is repeated lightning”	[wiya:f] [wiya:f] (n.b. also change to base)
uâtshishkupan(?)	uâuâtshishkupan [wæ:wæ:ði:ʃgubinin] “run in a zigzag”	[wæ:]				

IX. C/e/ <pe> /pe/

Base	Reduplicated Form	RED.	Initial Change Form		Reduplication/IC	RED/IC.
peikuteshu [pe:gode:ʃu:] “s/he is walking alone”	pâpeikuteshu [pa:pe:gode:ʃu:] “s/he's walking alone, going to/ around different places”	[pa:]-	peikutisht [pe:gudist ^h] “(who) is walking alone?”		pepâpeikutisht [pe:pa:pe:gudist ^h]	[pe:]-
peik ^u [peyk ^w] “one”	pâpeik ^u [pa:peyk ^w] “one each” pâpâpeik ^u [pa:pa:peyk ^w] “one at a time”	[pa:]- [pa:pa:]-				
peikuau [beygwəw] “once”	pâpeikuau [pa:peykwəw] “one after another; one at a time”	[pa:]-				

Base	Reduplicated Form	RED.	Initial Change Form		Reduplication/IC	RED/IC.
peikuiiau(?)	pâpâpeikuiiau [b a:ba: beygwiaw] “buy things one at a time”	[ba:ba:] (<i>Double Redup?</i>)				
peiku(?)itanu [b e: gundændŋʊ] “one hundred”	pâpeiku(?)itanu [p a: pe:gundændŋʊ?] “one hundred each”	[pa:]				
pekâtâushu (?)	pepekâtâushu [p e: pe:gæ:dawʃu:] “s/he is singing a lullaby to the baby” nipepekâtâushun [n əp: pe:gæ:dawʃun] “I am singing a lullaby to the baby”	[pe:]			pepekâtâushut [p e: pe:gæ:dawʃut] “(who) is singing a lullaby to the baby?”	[pe:]

Base	Reduplicated Form	RED.	Initial Change Form		Reduplication/IC	RED/IC.
pekutâtam ^u [peyægudæ:dòm] “s/he bites a hole in s.t.; makes a hole by rubbing with teeth”	papekutâtam ^u [pəpeygudæ:dòm] “s/he is biting holes in something” pepekutâtamin [pepegwɑ:tatəmin] “bite holes in them (canoes)”	[pə] [pe]			pepekutâtâk pe: pe:gudæ:dæk “(who) makes holes by rubbing with teeth”	[pe:]
peshku- (?)	papeshkupu [bæbeʃgʊpʊ] “it is rough, bumpy (shortened form of papeshkushikuâu)”	[bæ]				
peshku- (?)	papeshkushikuâu [bæbeʃgʊʃug ^w ɔw] “the ice is bumpy”	[bæ]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
peshku-(?)	papeshkutshâu [bəbeʃgʊɔʒaw] “it is bumpy, in the woods walking over rough, uneven ground	[bə]				
pessish [pe:sɪʃ] “close”	papessish [pəpe:sɪʃ] “closer and closer”	[pə]				
petam ^u [pe:dʊm] “s/he hears him/her”	papetam ^u [pəpe:dʊm] “hearing over & over, e.g. a noise, ringing in ears, tinnitus” nipapetin [nəbəb:e:ɔm] “I’m hearing a noise repeated”	[pə] [bə]	pietâk [piyetak ^h] “(who) hears it?” e petâk [e: petæk ^h] “(when) s/he hears it”	[iyɛ] [e:] (e- conjunct)		

Base	Reduplicated Form	RED.	Initial Change	IC	Reduplication/IC	RED/IC.
petam ^u , cont'd.	tshika papetam ^u [ɕɪgə bəb:e:dəm] tshika petapetam ^u [ɕɪgə bɛ:də b:e:dəm] “can hear it over and over”	[be:də]				

X. C/e/ <te> /te/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tepueu [te:bwew ^h] “s/he is yelling”	teputepueu [debəde:bwew] “s/he is yelling over and over” niteputepuen [n de:bə debwen] “I am yelling over and over”	[debə] [de:bə]	tiepuet [ti yeb wɪt ^h] “(who) is yelling?” e tepuit [e: te:bwɪt] “while s/he is yelling”	[iye] [e:] (<i>e-conjunct</i>)	tieputepuit [ti yeb ətepwɪt ^h] “(who) is yelling?” e teputeput [e: te: b əte:bwɪt] “while he is yelling (over and over)”	[iye] [e:] (<i>e-conjunct</i>) + [te:bə]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
teuetsheu [de:wi:ɕiw] “s/he is playing a drum, knocks on it”	tateuetsheu [da:de:we:ɕiw] “knock over and over” tateuekaitshu [tə:ewegeɕu:] “knock over & over” nitateuekaitshin [ntə:ewegeɕin] “I knock over and over”	[də] [tə]			teteuekaitshit [de:duwege:ɕit ^h] “(who) is knocking on a wall?”	[de:]

XI. C/e/ <she> /ʃe/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
shepanu [ʃebənu] “it opens by itself”	sheshepanu [ʃeʃebənu:] “it keeps opening by itself”	[ʃe]	shiepanit [ʃiɛbənt] “(what) is opening by itself?”	[iɛ]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
shepanu [ʃebənu] “it opens by itself”	shepishhepanu [ʃ eb ʃebənu:] “it keeps opening by itself”	[ʃeb]				
	shepishhepanua [ʃ ebə ʃebɪnuɑ ^h] “they keep opening by themselves”	[ʃebə]				
	tshika shepishhepanu [tʃɪgəʃ ebə ʃe:bənu:] “it will keep opening”	[ʃe:bə]				

XII. C/e/ <me> /me/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
metueu [m <u>e</u> d <u>u</u> wɛ(w)] “s/he plays”			mietuit [m <u>iy</u> əduwɪt ^h] “(who) is playing?”	[iyə]		
			e metuit [<u>e</u> meduwɪt ^h] “(while) s/he is playing”	[e] (<i>e-conjunct</i>)		

XIII. C/e/ <ne> /ne/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nekâtshu [ne:ga:ɕu:] “abusing animals, children”	nenekâtshu [ne:negaɕu:] “s/he suffers (more emotional than physical suffering)”	[ne:]			nienekâtshut [niyene:gæ:ɕut ^h] “(who) is suffering?” e nenekâtshut [e: ne:niga:ɕut ^h] “(while) s/he suffers”	[niye] [e:] (<i>e- conjunct</i>) + [nɛ]
neneu [nenuw] “she breathes”			nienet [niye:niɪ] “(who) is breathing?” e mishta nenet [e mi:s:tə nenit ^h] “when he's breathing hard” meshta nenetshi [mɛ:s:tə nenedʒi] “when he's breathing hard”	[iye:] [e] (<i>e- conjunct</i>) [ɛ] (<i>change to preverb</i>)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
neshtu [nɛ:ʃtu] “s/he is tired”			nieshtut [niyɛʃtʊtʰ] “(who) is tired?” e neshtut [e nɛ:ʃtʊtʰ] “(because) he is tired”	[iyɛ] [e] (e- conjunct)		
neu [nɛ:w] “four”	nâneu [næ:ne:w] “four each” nâneuau [næ:ne:wɔw] “four at a time” nâneuntitanu (?) [næ:ni(w)ɔndændʊt] “four hundred each”	[næ:] [næ:] [næ:]				

XIV. C/e/ <kue> /kue/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kueshkushu [gweʃ:gwə:ʃu:] “s/he whistles (once)”	kukueshkushu [gugweʃguʃu:] “s/he whistles over and over” nikukueshkushun [nəgugweʃguʃʊn] “I’m whistling over and over”	[gu] [gu]	kuieshkushut [gwiye:ʃguhʊt] “(who) is whistling”	[iye:]	kuieshkuieshkushut [gwiyəgwiyeʃguhʊtʰ] “(who) is whistling over and over?” uâ kuekueshkushut [wa: gwe:gweʃguhʊtʰ] “(who) is trying to whistle?”	[gwiyə] (n.b. the base also changes.) i: > a: (preverb) + [gwe:]
kuessipanu [kwes:ipinu:] “turn things over (things turning over by themselves)”	kukuessipanu [gu:gwe:səbənu:] “it keeps turning over” kuekuessipanu [gwe:gwe:sipənu] “it keeps turning over” nikuesskuessipatin [nəgwes:gwe:sibidɪn] “I keep turning over”	[gu:] [gwe:] [gwe:s]	kuiessipanit [kwiyes:ipinitʰ] “(what) is turning over?” e kuetipanit [e kwedəbɪntʰ] “(while) it is turning over (e.g. vehicle)”	[iye] [e] (e- conjunct)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kuessishinu [gwe:siʃinuʔ] “turn over once (e.g. in bed)”	kuessikuessishinu [gwe:səgwe:səʃinuʔ] “turning over & over; tossing & turning in bed” nikuessikuessishin [nəgwe:səgwe:siʃɪ] “I am tossing & turning”	[gwe:sə] [gwe:sə]	kuiessishinit [gwiye:səhntʰ] “(who) is turning (once)?”	[iye:]	kuiessikuessishinit [gwiye:səgwe:səʃɪntʰ] “(who) is tossing & turning?”	[gwiye:]
kuetshimeu [gwe:ʒimew] “s/he asks him/her”	kuekuetshimeu [gwe:gwe:ʒimew] “s/he is questioning him/her” nikuekuetshimun [nəgwe:gwe:ʒimʊn] “I’m questioning him/her” uî kuekuetshimeu [wi:gwe:gwe:ʒimew] “s/he wants to question him/her”	[gwe:] [gwe:]	uâ kuetschimât [wa:gwe:ʒimatʰ] “(who) wants to ask him/her?”	i: > a: (preverb) + [gwe:]	kuiekuetschimât [kwiyəkwe:ʒimatʰ] “(I know) s/he's questioning him/her” kuiekuietschimât [kwiyəgwiyəʒimatʰ] “(I know) s/he's questioning him/her” uâ kukuetschimât [wa:gugwe:ʒimatʰ] “(who) wants to question him/her?”	[kwiyə] [gwiyə] (n.b. also change to base) i: > a: (preverb) + [gu]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kuetshimu (?)	k kuetshimu [kʊkweɟimu:] “s/he asks a question”	[kʊ]	kuetshimikut [kwe:ɟimigʊtʰ] “(who) asks a question?” e kuetshimut [e kwe:ɟimʊtʰ] “(while) s/he is asking a question”	[e:] (no change?) [e] (<i>e-conjunct</i>)	kuekuetshimikut [kwe:kwe:ɟimʊgʊtʰ] “(who) asks a question?” e kuetshimut [e: kʊkwe:ɟimʊtʰ] “(while) s/he is asking a question”	[e:] (no change?) [e:] (<i>e-conjunct</i>) + [kʊ]
XV. u/e/ <ue>						
Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
uepâshtan [we:pæ:ʃtən:] “it is blown away”	ueuepâshtan [we:we:pæ:stɪn] “it is blowing away; e.g. a flag waving, blowing in the breeze”	[we:]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
uepinam ^u [we:pɪnɒm] “s/he throws it away”	ueuepinam ^u [we:we:pɪnɒm] “throwing stuff away” nueuepimitin [nəwe:we:bmədɪn] “I’m throwing confetti”	[we:] [we:]	uiepinâk [wiyəpɪnak ^h] “(what) is s/he throwing away?”	[iyə]		
ueshû [we:ʃi:u:] “dressed up”	nueueshiun [nəwe:we:ʃiyun] “I’m fixing myself up”					
ueshû	ueueshû [we:we:ʃiyu] “s/he fixes herself/himself up, gets ready, dressed (formal, going to a wedding)”	[we:]			ueueshût [we:we:ʃiyut ^h] “(I know) s/he’s fixing her/him up” uieuieshiut [wiye:wiye:ʃiyut ^h] “(I know) s/he’s fixing her/himself up” e ueueshût [e weweʃiyut ^h] “(while) s/he is fixing herself/himself up”	[we:] [iye:] <i>(note change to base)</i> [e] (<i>e-conjunct</i>) + [we]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
uetapû (?)	ueuetapû [wewetapu:] “s/he is about to sit down”	[we]				

XVI. C/i:/ <p î> /pi:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
pîkuenishtu (?)	pâpîkuenishtu [pæ:bi:gwenɪftu:] “smile”	[pæ:]				
pîkupanu [pi:gubinu:] “breaks down”	pâpîkupanu [ba:bi:gubinu:] “each one breaks down; it’s breaking in different parts” nîpâpîkupatin [nibæ:bi:gubidɪn] “I break it in many pieces”	[ba:] [bæ:]	piâkupanit [biyægubɪtʰ] “(what) is breaking down?”	[iyə]	piâpikupanit [biyæbi:gubɪtʰ] “(what) is breaking down in different parts?”	[biyə]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
pîminam ^u [bɪ:mɪnəm] “s/he wrings it (by hand); turn s.t., doorknob, taps (once)”	papîminam ^u [pabɪ:mɪnəm] “s/he turns s.t., doorknob, taps (many times, over & over)”	[pa]			pepîminak [pe:pi:mənək ^h] “(who) is turning s.t., doorknob, taps (many times, over & over)?”	[pe:]
pîminam ^u	nipapîminen [nəpəpi:mənɪn] “I turn s.t., doorknob, taps (many times, over & over)”	[pə]				
pîtuâu [pi:tuwəw] “s/he smokes”	papîtuâu [babɪ:twəw] “s/he smokes one after another” pîtapîtuâu [pi:dəpi:dwəw] “s/he’s sitting there smoking over & over” nipîtapîtuan [nəpi:dəpi:dəwʌn] “I smoke over & over”	[ba] [pi:də] [pi:də]	piātuât [piyətwat ^h] “(who) is smoking?”	[iyə]	piâtapîtuât [piyədəbɪ:duwat ^h] “(who) is smoking over & over?” e pîtapîtuât [e pi:dəbiduwat ^h] “(while) s/he is smoking over & over”	[piyədə] [e] (<i>e-</i> <i>conjunct</i>) + [pi:də]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
pîtûkunîu [pi:tugonyu] “s/he covers up with a layer, blanket”	pâpîtukuniu [pa:pi:tugonyu:] “s/he covers up with another layer, blanket” nipapîtûkunin [ni:pa:pi:togonin] “I cover up with another layer, blanket”	[pa:] [pa:]			piâpîtukunit [piyapitukunit ^h] “(who) covers up with another blanket?”	[piya]

XVII. C/i:/ <ti> /ti:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tîpaitshëpanu [ti:peyðebinu:] “wrap in blanket (once)”	tîtîpaitshëpanu [ti:ti:peyðebinu:] “wrapping in a blanket”	[ti:]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
títipinû [tɪ:təpənyu:] “s/he it rolls up once (in a blanket)”	títítipinû [tɪ:tɪ:təpənyu:] “s/he it is rolling up (in a blanket)”	[tɪ:]				

XVIII. C/i:/ <mî> /mi:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mîneu [mi:nɪw] “s/he gives s.t to him/her”	mînamîneu [mi:nəmi:nɪw] “s/he keeps giving s.t. to him/her” nimînamîneu [nəmi:nəmi:naw] “I keep giving s.t to her/him” uî mînamîneu [wi: mi:nəmi:nɛʷ] “s/he wants to keep giving things to s.o.”	[mi:nə]	miânât [miyænath] “(who) is giving s.t to him/her?”	[iyæ]	miânamiânât [miyænəmi:nath] “(who) keeps giving s.t to him/her?” uâ mînamînat [wa: mi:nəmi:nath] “(I know) s/he wants to keep giving things to s.o.”	[miyænə] i: > a: (preverb) + [mi:nə]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mînu <u>e</u> [mi:nuwew] “s/he gives things away”	mamînu <u>e</u> [mami:nuwew] “s/he gives things to different people (e.g. candy, trick-or-treating)”	[ma]	miân <u>e</u> t [miy ^h anuwit ^h] “(who) gives things away?”	[iyə]	menaminu <u>e</u> t [me:n ^h ami:nuwit ^h] “(who) is giving things to different people?”	[e]
	nimamînu <u>e</u> n [nəmami:nuwen] “I give things to different people”	[mə]	e mînu <u>e</u> t [e mi:nuwit ^h] “(when) s/he gives things away”	[e] (<i>e-conjunct</i>)		
tshipâ mînu <u>e</u> [ɕɪba:mi:nuwew] “s/he should give things away”	tshipâ mâmînu <u>e</u> [ɕɪba:ma:mi:nuwew] “s/he should give things away to different people”	[ma:]				
mîshaim ^u [mi:feym] “extend something, add a piece”	mâmîshaim ^u [ma:mi:fim] “s/he patches it; adds on pieces to lengthen it (put more & more pieces on)”	[ma:]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
	uî mâmishin [wi: ma: miʃɪn] “s/he's trying to patch it”	[ma:]			miâmishaik [miya: miʃeyk ^h] “(who) is patching it?” uâ mâmishaik [wa: ma: miʃeyk ^h] “(who's) trying to patch it?”	[miya:] i: > a: (preverb) + [ma:]
mîshîu [mi:ʃyu:]	mâmîshîu [ma:miʃu:] [ma: mi:ʃyu:] “s/he has diarrhoea” nimâmîshin [nə ma: mi:ʃɪn] “I have diarrhoea”	[ma:]	miâmîshit [miyæ: mi:ʃɪt ^h] “(who) has diarrhoea?”	[iyæ:]		
mîshkunam ^u (?)	mâmîshkunam ^u [mæ: mi:ʃgunəm] “feeling around searching for something”	[mæ:]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mîâtêu [mi:dæ:diw] “s/he misses him/her”	mîtamîâtêu [mi:dəmi:dæ:dew] “s/he keeps missing her/him”	[mi:də]	miâtâtât [miya:dæ:dat ^h] “(who) is missing him/her?”	[iya:]	miâtâmîâtât [miya:dəmi:dæ:dat ^h] “(who) keeps missing him/her”	[miya:də]
nimîtshetûtan (?)	nimâmîtshetûtan [nəmə:mi:ʒedu:dan] “I am making many things”	[mæ:]				
mîtshishu [mi:ʃu:] “s/he eats”	mamîtshishen [məmi:ʒin] “eating everywhere” mîtshimîtshituau [mi:ʒəmi:ʒəd ^w ɔ ^w]	[mæ] [mi:ʒə]	miâtshishit [miyæʒit ^h] “(who) is eating?” e mîtshishut [e mit ^h ʃut ^h] “(when) he is eating”	[iyæ] [e] (<i>e- conjunct</i>)		

XIX. C/i:/ <nî> /ni:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nîmu [ni:mu:] “s/he dances”	nanîmu [nən:i:mu:] “s/he dances all the time”	[nə]				
nîpâteu (?)	nânîpâteu [næ:ni:bæ:dew] “s/he walks around at night” ninânîpâtin [ninæ:ni:bæ:dɪn] “I walk around at night”	[næ:]			niânîpâtit [niyæ:ni:pæ:dɪt] “(who) is walking around at night?”	[niyæ:]
nîsh ^u [ni:ʃ ^h] “two”	nânîsh ^u [næ:ni:ʃ] “two each” nânîshuau [næ:ni:ʃwew] “two at a time”	[næ:] [næ:]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nîâtutshin [nî:tawɕʒin] “it grows”	nanîâtutshin [næni:tawɕɳ] “it keeps growing & growing”	[næ]	niâtâtutshik [niyatawɕʒik ^h] “(what) is growing?” e nîâtutshik [e ntawɕʒik ^h] “while it is growing”	[iya] [e] (<i>e-conjunct</i>)		

XX. C/i:/ <shî> /ʃi:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
shîpashiu [ʃi:bæ:ʃu?] “going under s.t (e.g. log in the woods)”	shîpashîpashiu [ʃi:bəʃi:bæ:ʃu] “s/he keeps going under something”	[ʃi:bə]	shiâpashut [ʃiyəba:ʃut ^h] “I know s/he is going under something”	[iyə]	shiâpashepashut [ʃiyəbəʃeba:ʃut ^h] “I know s/he keeps going under something”	[ʃiyəbə] (n.b. change to base: i:>e)

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
shîpîu [ʃi:biw] “s/he is stretching (once)”	shâshîpîu [ʃa:ʃi:biw] “s/he is stretching (many times)”	[ʃa:]				
nishîpin [nəʃi:bin] “I am stretching (once)”	nishâshîpin [ni:ʃa:ʃi:bin] “I am stretching (many times)”	[ʃa:]				
	nishîpishîpitin [niʃi:bi:bi:pidin] “I am stretching s.t. (a fabric)”	[ʃi:bi]				
	shîpishîpanu [ʃi:bi:bi:pənu?] “s/he is stretching quickly”	[ʃi:bi]				
shîkuan(?)	shîshîkuan [ʃi:ʃi:guʔn] “rattle”	[ʃi:]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
shîuenu [ʃi:wenu:] “s/he is hungry”			shiâuenit [ʃiyəwɪntʰ] “(who) is hungry?”	[iyə]		

XXI. C/i:/ <tshî> /ɕi:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tshînikuânitshimeu [ɕi:nogwa:nɕimɪw] “s/he went round once”	tshînitshînikuânitshimeu [ɕi:nɕi:nogwa:nɕimɪw] [ʃi:nəʃi:nəg ^w ɑ:nəs:iɲetʰ] “s/he is going around (on a boat)”	[ɕi:n] [ʃi:nə]			tshânitshînikuânitshimit [ɕa:nɕi:nugwa:nɕimɪtʰ] “(who) went round and round?” tshentshînikuânissimit [ʃe:nʃi:nəg ^w ɑ:nəs:iɲetʰ] “(who) is going around on a boat?”	[ɕa:n] [ʃe:n]
tshînikuânuteu (?)	tshînitshînikuânuteu [ɕi:nɕi:nogwa:nu:diw] “walk round & round”	[ɕi:n]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tshîkâueu [ɕi:ka:dwɨw] “cut branches with an axe”	tshîtsîkâueu [ɕiɕi:ka:dwɨw] “cut many branches with an axe” nitshîtsîkâuau [nɕiɕi:ka:dwɔw] “I cut many branches”	[ɕi] [ɕi]			tshetsîkâtetshit [ɕeɕi:ka:deɕiɪʰ] “(I know) s/he's cutting branches” e tshitshîkâtetshit [e: ɕiɕi:ka:deɕiɪʰ] “(when) s/he's cutting branches”	[ɕe] [e:] (<i>e-conjunct</i>) + [ɕi]
tshîkâueu [ɕi:ka:wew] “s/he speaks loudly”			meshta-tshîkâuetshi [mɛ:ʃtə ɕi:ka:wɛɕi] “when s/he speaks loudly”	[ɛ:] (<i>change to preverb</i>)		
tshîshipitam ^u (?)	tshîtsîshipitam ^u [ɕiɕi:ʃɪbɪdom] “rub together to soften”	[ɕi]				
tshîssam ^u [ɕi:sam] “s/he cooks it (cook until done)”			tshîassâk [ɕiyəsækʰ] “(what) is he cooking?”	[iyə]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tshîtapâtam ^u [ɕʝi:da:badom] “s/he looks at it, reads it”	tshîtshîtapâtam ^u [ɕʝiɕʝidæ:bæ:dɔm] “s/he looks at it, reads it (keeps looking at it)” kakatshîtapâtam ^u [kəkəɕʝidæ:bæ:dɔm] “s/he reads one thing after another” nikakatshîtapâtin [nikəkəɕʝidæ:bæ:dɔm] “I read one thing after another”	[ɕʝi] [kə]	tshiâtatâk (?) [ɕʝiyəda:dæk ^h] “(what) is he reading?” tshiâtapâtâk [ɕʝiyædæ:bæ:dak ^h] “that she always looks at” e tshîtapâtâk [e ɕʝi:dæ:bæ:dæk ^h] “while s/he is reading”	[iyə] [iyæ] [e] (<i>e- conjunct</i>)		
tshîtûteu [ɕʝidu:dew] “s/he leaves (by foot)”			tshiâtûtît [ɕʝiyæ:du:dɪt ^h] “(who) leaves (by foot)”	[iyæ:]		
tshîueshkuenu [ɕʝiwe:ʃgwe:nu:] “s/he turns her/his head once”	katshîueshkuenu [gæ:ɕʝiwe:ʃgwenu?] “s/he moves his/her head from side to side”	[gæ:]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tshîueshkuépanu [ɕʝi:we:ʃgwe:bənu] “s/he turns her/his head”	kakatshîueshkuépanu [gəgəɕʝi:we:ʃgwe:bənyu] “s/he turns her/his head again & again” nikâtshiueshkuépinu [nəgəɕʝi we:ʃgwebənyu] “I turn my head from side to side”	[gəgə] [gə:]	tshiaueshkuépinu [ɕʝiyəwe:ʃgwe:bənyutʰ] “(who) turns his/her head?”	[iyə]	[kekâtshîueshkuépinu] [gə:gəɕʝi:we:ʃgwebənyutʰ] “(who) turns his/her head from side to side?” [gə:gəɕʝi:we:ʃgwebənyutʰ] “(who) turns her/his head again & again?”	[gə:] [gə:]

XXII. **u/i:/** <uî> / ui:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
uîneu [wi:nəw] “s/he names someone”	uâuîneu [wə:wɪ:nəw] “s/he talks about him/her” niuâuînau [nəwə:wɪ:naw] “I talk about him/her”	[a:] [a:]			uiâuînât [wiyæ:wɪ:natʰ] “(who) talks about him?” e uauinât [e wə:wɪnatʰ] “while s/he is talking about her/him”	[wiyæ:] [e:] (<i>e-conjunct</i>) + [wə:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
uîtamueu [wi:təmweu] “s/he says (in conversation)”	uîtauîtamueu [wi:təwi:təmweu] “s/he tells him/her over & over again” niûtauîtamueu [nəwi:təwi:təmweu] “I keep telling him/her”	[wi:tə] [wi:tə]	uiâtamuât [wiyæ:dɪmwat ^h] “(who) tells him/her?”	[iyæ:]	uiâtauîtamakut [widəwi:dəma:ɡut ^h]	<i>no vowel change</i> + [wi:də]
uîtshiu [wi:ʒiw] “help”	uâuîtsheu [wæ:wi:ʒiw] “help a lot of people” niûâuîtsheiu [nəwæ:wi:ʒiaw] “I help a lot of people”	[wæ:] [wæ:]	uetshikut [wɛʒi:ɡut ^h] “(who) is helping?” uiâtshikut [wiyaʒiyəɡut ^h] “(who) is helping?” e uitshikut [e: wi:ʒi:ɡut ^h] “while s/he is helping”	[ɛ] [iya] [e:] (<i>e-conjunct</i>)		
uîtsheueshu [wi:ʒewɛʃu:] “s/he went with her”	uâuîtsheueshu [wæ:wi:ʒewɛʃu:] “s/he usually went with him/her”	[wæ:]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
uîûshu [wi:yu:ʃu:] “s/he carries s.t., on side, back; e.g. child carrying a backback”			uiâushut [wiya:ushot] “(who) is carrying her purse?”	[iya:]		
uîûtamueu [wi:yu:dəmiw] “s/he carries s.t. on his/her back”			uîûtamât [wi:yu:dimat ^h] “(who) carries s.t. on his/her back?”	[i:] (no change)		

XXIII. C/u:/ <pû> /pu:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
pûshu [pu:ʃu: ^h] “s/he leaves by vehicle”			pûshut [pu:ʃət ^h] “(who) is leaving?” e pûshit [e: pu:ʃit ^h] “(while) he was going inside the vehicle”	[u:] (no change) [e:] (e- conjunct)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
pûtâtam ^u [pu:tæ:tom] “s/he blows on it”	papûtâtam ^u [pəpu:tæ:tom] “s/he blows on it repeatedly” pûpûtâtam ^u [pu:pu:tæ:tom] “s/he blows on it repeatedly” nipûpûtaten [nəpu:pu:dæ:dɪn] “I am blowing repeatedly” nipûtapûtaten [nəpu:dəpu:dæ:dɪn] “I am blowing repeatedly” uî pûpûtâtam ^u [wi: pu:pu:dæ:dəm] “s/he wants to blow repeatedly”	[pə] [pu:] [pu:] [pu:də] [pu:]	pûtâtâk [pu:tæ:tæ:k ^h] “(who) blows on it?” uâ pûtâtâk [wa: pu:dæ:dak ^h] “(who) wants to blow?”	[u:] (no change) [a:]	pûpûtâtâk [pu:pu:dæ:dak ^h] “(who) is blowing repeatedly?”	[u:] (no change)

XXIV. C/u:/ <tû> /tu:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tûtam ^u [du:dòm] “s/he does it”			e tûtâk [e:tudak ^h] “(who) is doing it?” tiûtâk [tiu:dak ^h] “(who) is doing it?”	[e:] (<i>e-conjunct?</i> <i>or is base actually</i> <i>itûtam^u</i> <i>and</i> <i>changed</i> <i>form</i> <i>etûtâk?</i>) [iu:]		
tûuau [du:wəw ^h] “s/he is playing ball”			e tûuât [e: duwat ^h] “when he plays ball”	[e:] (<i>e-conjunct</i>)		

XXV. C/u:/ <kû> /ku:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kûtau [gu:dʌw] kûtaim ^u [gu:deym ^h] “s/he knocks down (with object)”	nikûtakûtain [nəgu:dəgu:deyn] “I keep knocking things over, here & there (e.g. driving an obstacle course, knocking down some pylons, not all)	[gu:də]	kûtaik [gu:deyk ^h] “(who) knocks s.t. over?”	<i>no change</i>	kûtakûtaik [gu:dəgu:deyk ^h] “(who) keeps knocking things over?”	<i>no change</i> + [gu:də]

XXVI. C/u:/ <mû> /mu:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mûpu [mu:pu] “s/he visits” (s/he is visiting - there, at the place)	mamûpu [məmu:bu?] “s/he keeps visiting; visits over & over” nimamûpin [nəməmu:bin] “I keep visiting”	[mə] [mə]	mûpit [mu:pit ^h] “(who) is visiting?” e mûpit [e mu:pit ^h] “(while) s/he is visiting”	<i>no change</i> [e] (<i>e- conjunct</i>)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mûpishtueu [mu:piʃ:twew] “s/he visits him/her”	mamûpishtueu [mamu:piʃtuwew] “s/he visits many people, going from one place to another nimamûpishtuaut [nəməmu:piʃtuwəwtʰ] “I visit many people”	[ma] [mə]	mûpishtuât [mu:piʃtuwatʰ] “(who) is s/he visiting?” e mûpishtuât [e mu:piʃtuwatʰ] “when she is visiting” (speaker not comfortable with this form)	<i>no change</i> [e] (<i>e- conjunct</i>)		
mûshkûkâteu (?)	mâmûshkûkâteu [mæmu:ʃgugæ:diw] “s/he has pains in the legs”	[mæ]				
mûssineu [mu:snew] “showing off s.t.”	mâmûssineu [ma:mu:sənew] “s/he gathers them, things together” nimâmûssiniaut [ni:ma:mu:siniyawtʰ] “I’m gathering things together”	[ma:] [ma:]			miâmûssinitât [miyæ:mu:sindatʰ] “(who) is gathering things?”	[miyæ:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mÛssipiteu [mu:sibiðiw] “s/he has s.t. in pocket & takes out to show to s.o.”	mÛssimÛssipiteu [mu:simu:sibiðiw] “showing off many things; e.g. have chocolate bars in bag; keeps taking out one at a time & giving to friends”	[mu:sɪ]				
mÛtshitshu [mu:ʈɪʈu:] [mu:ʈɪʈuʔ] mÛtshitshipanû [mu:ʈɪʈɪbɛnyuʔ] “s/he bends over”	mÛtshimÛtshitshipanû [mu:ʈɛmu:ʈɪʈɪbɛnyuʔ] “s/he keeps bending over (many times)”	[mu:ʈɛ]				

XXVII. C/u:/ <nŭ> /nu:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nŭkushu [nu:guʃu:] “it appears (also - t.v.is on; show is on now)”	nanŭkushu [nɪnu:guʃu:] “s/he appears here & there” tshinanŭkushin [ɕʒənənu:guʃɪn] “you appear here & there”	[nɪ] [nə]	nŭkuâk [nu:gwak ^h] niŭkuâk [niyu:gak] “what is appearing?”	<i>no change</i> [iyu:]		
nŭtin [nu:tɪ] “it is windy”	nanŭtin [nænu:dɪ] “it keeps being windy”	[næ]	nŭtik [nu:tɪk ^h] “when is it windy?” e nŭtik [e nu:tɪk ^h] “while it is windy”	<i>no change</i> [e] (<i>e- conjunct</i>)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nûtshieu [nu:ɕiw] “s/he bothers him/her”	nanûtshieu [nænu:ɕiw] “s/he keeps bothering him/her” ninânûtshikuâu [nɪnæ:no:ɕigwɔw] “I keep bothering him/her”	[næ] [næ:]	nûtshiât [nu:ɕiyat ^h] “(who) is bothering him/her?”	<i>no change</i>		

XXVIII. C/a/ <pa> /pI/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
pakâu (?)	papakâu [bɒbɒgaw] “it’s flat”	[bɒ]	pepakat [be:bɒgat ^h] “(I know) it’s flat”	[e:] (<i>e- conjunct</i>)		

XXIX. C/a/ <ka> /kI/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kaishipashipenta (?)	kaishkaishkaishipashipenta [gɑʃgɑʃgɑʃɪpsəbədə] “slingshot”	[gɑʃ] <i>double redup.</i>				
kashkâtashteu [gəʃgədɪstew] “drawing a square”	kashkashkâtashteu [gəʃgəsgadəstiɰ] “it is placed, drawn in squares; it has a checked pattern”	[gəʃ]	e kashkâtashtentshi [e gəʃgudɪstɛ:ndʒi] “that has lots of squares”	[e] (<i>e-conjunct</i>)		
kasseuet [kəs:e:wɪtʰ] “using a shortcut to go from one point to another; following the shoreline”			kesseuet [kəs:e:wɪtʰ] “(who) is using a shortcut?”	[ɛ]		

XXX. C/a/ <ma> /mI/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
manipitam ^u [manəpətəm] “s/he pulls out, tears out, tears off s.t. (e.g. a page)”	mamanipitam ^u [mamanəpətəm] “s/he tears up things”	[ma]	menipitâk [menəpatæk] “(who) tears out a page?”	[e]		
mashinaimueu [mɪʃineimwew] “write (can also mean 's/he owes money')”	mamashinaimueu [mamɪʃineimwew] “s/he writes to everybody; s/he owes money to everybody”	[ma]	meshinaitshit [me:ʃəneyʒɪtʰ] “(who) is writing?”	[e:]	memashinaimuat [me:məʃəneymwatʰ] “(who) is writing to everyone/ owes money to everyone?”	[me:]
matshitûtam ^u [mɪʒɪdu:dəm] “s/he does something wrong”	mamatshitûtam ^u [məmɪʒɪdu:dəm] “s/he does something really wrong”	[mə]			memâtshitûtâk [me:mɪʃətu:takʰ] miâmatshitûtâk [miyæ:məʃɪtu:takʰ] “(I know) s/he's really doing something wrong”	[me:] [miyæ:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
matshaîtû (?)	mamatshaîtû [məmɪ:ʃeytu:] “s/he acts badly”	[mə]				
matshenimeu [mɪʃːenimew] “s/he hates him/her”			metshenimikut [mɛʃːenimigot ^h] “(who) hates him/her?”	[e]		
matuekâteu [mɪtuwe:gæ:dɪw] “a fire is starting, crackling once”	m amatuekâteu [mæmadəwegæ:dɪw] “the fire is going well” ma matatauekâteu “the fire is going well, lots of crackling”	[ma] [mata]				

XXXI. C/a/ <na> /nI/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
namatshu (?)	nanamatshu [n̩anamɪʃu] “s/he is shivering with cold” ninanamatshin [n̩ənənəmətʃɪn] “I’m shivering with cold”	[na] [nə]			nenamatshit [n̩ɛnəmɪʃɪtʰ] “(who) is shivering with cold?” e nanamatshit [e: n̩ɪnɪmɪʃɪtʰ] “while she is shivering with cold”	[nɛ:] [e:] (<i>e-conjunct</i>) + [nɪ]
namutâmu (?)	nanamutâmu [n̩ænəmɔtæ:mu:] “s/he has a shaky voice” ninanamutâmun [n̩ənəmɔdæ:mʊn] “I have a shaky voice”	[næ] [nə]			nenamutâmut [n̩ɛnəmɔtæ:mʊtʰ] “(who) has a shaky voice?” e nanamutâmut [e n̩ɪnɪmɔtæ:mʊtʰ] “when s/he has a shaky voice”	[nɛ] [e] (<i>e-conjunct</i>) + [nɪ]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nashkumeu [nəʃkʊmɛw] “s/he thanks him/her”	nanashkumeu [nənɪʃkʊmɛw] “s/he thanks one after another”	[nə]	neshkumât [nɛʃkumat ^h] “(who) is s/he thanking?”	[ɛ]	nenashkumatuina [nɛ:nɪʃgəmadwɪnah] “(who) is thanking different people?”	[ne:]
	ninanashkumau [nɪnɪʃkəmɔw] “I am thanking one after another”	[nɪ]	e nashkumât [e:nɪʃkumat ^h] “while s/he is thanking her/him”	[e:] (<i>e- conjunct</i>)		
	uî nanashkumeuina [wi:nənɪʃgəmiwɪnah] “s/he wants to thank different people”	[nə]				uâ nanashkumatuina [wɑ:nənɪʃgəmədwɪnah] “(who) wants to thank different people?”
natau [næ:ntaw] [næntu:] “s/he hunts”			nentuit [nɛntuwət ^h] “(who) is hunting?”	[ɛ]		
			e natuit [ɛntuwɪt ^h] “while s/he is hunting”	[ɛ] (<i>e- conjunct</i>)		

XXXII. C/a/ <sha> /ʃI/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
shashkaim ^U [ʃəʃkeym ^h] “s/he lights it (e.g. a fire, lantern)”	shashashkaim ^U [ʃəʃəʃkeym] “s/he’s lighting a fire one after another”	[ʃə]	shiâshkaik [ʃiyæ:ʃkek ^h] “(who) is lighting it?”	[iyæ:]		

XXXIII. C/I/ <pi> /pI/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
pimâshu [pimæ:ʃu:] “sail”	papamâshu [pəpamæ:ʃu] “s/he floats around; person blowing in wind; tree branches blowing in wind”	[pa]	pemashut [pəməʃut ^h] “(who) is sailing?”	[e]		
pimâshtin [pɪmæ:sɪn] [pɪmæ:ʃɪn] “anything that can blow away, e.g. paper, plastic”	papâmaukû [pəpə:mawgu:] “sailing around”	[pə]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
piminashueu (?)	papaminashueu [pəpæ:miɲæʃuɰew] [pʌp:a:miɲa:ʃuɰew] “s/he follows him/her around; she runs and follows him”	[pə] [pʌ]				
piminueu [pimiɲuwiw] “s/he is cooking” (e.g. cook supper)			peminuit [bemiɲuwiʰ] “(who) is cooking?”	[e]		
pimintâkunam ^u (?)	papâmintâkunam ^u [bəbæ:miɲdæ:ɡuɲum] “s/he carries s.t. around” nipapâmintâkunin [nəbəbæ:miɲdæ:ɡuɲin] “I’m carrying s.t. around”	[bə] [bə]			pepâmitâkunâk [be:ba:miɲdæ:ɡuɲakʰ] “(who) is carrying it around?”	[be:]
pimipanu(?)	papâmipanu [pəpa:mpɲinu] “(it) was flying around” papâmipananu [bəba:mbɲænu] “it goes around”	[pə] [bə]			pepâmipinit [peba:mpɲitʰ] [pe(m)pa:mpɲitʰ] “(what) is flying around?”	[pe]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
pimishinu [pɪmɪʃɪnu:] “s/he is lying down”	papâmishinu [pəpa:mɪʃɪnuʔ] “lying down, moving here & there in bed (not tossing & turning)”	[pə]	pemishinit [be:məʃɪntʰ] “(who) is lying down?”	[e:]	pepâmishinit [be:bə:məʃɪntʰ] “(who) is moving here & there in bed?”	[be:]
pimishkâu [bɪmɪʃgɔw] “s/he paddles”	papâmishkâu [bəba:mɪʃgɔw] “s/he paddles around, going around in a canoe”	[bə]	piâmishkât [biyəmɪʃgɔtʰ] “(who) is paddling?”	[ɪyə]	pepamishkât [pe:pamɪʃgɔtʰ]	[pe:]
pimuât(?)	papâmuât [bəba:mwa:tʰ] “carry on one's back”	[bə]				
pimushinâtâu [pɪmʊʃɪnæ:dɔw] “throw at”	papâmushinâtaim [pəpa:mʊʃɪnæ:deym] “throws s.t. over & over” nipapâmushinâtain [nəpəpa:mʊʃɪnæ:deyn] “I throw s.t. over & over”	[pə] [pə]	piamushinataik [piyəmʊʃɪnæ:deykʰ] “(who) is throwing s.t.?”	[ɪyə]	pepâmushinataik [pe:pə:mʊnæ:deykʰ] “(who) is throwing s.t. over & over?”	[pe:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
<p>pimûteu [p̣iṃu:tew] [p̣ṃu:tew] “s/he walks”</p>	<p>papâmûteu [p̣ap̣aṃu:tiw] [p̣ap̣a:mu:dew] “s/he walks around (a long distance, walking everyday)”</p> <p>pipimûteu [pip̣iṃu:tew] “s/he's walking around, not straight” (not familiar to some speakers)</p> <p>uî papâmûteu [wi: ḅəba:muḍiw] “s/he wants to go walking around”</p>	<p>[pə]</p> <p>[pi]</p> <p>[bə]</p>	<p>pemûtet [be:mu:ḍit^h] “(who) is walking?”</p>	[e:]	<p>pepâmûtet [be:ba:mu:ḍit^h] “(who) is walking around?”</p> <p>uâ papâmûtit [wɑ: ḅəba:muḍit^h] “(who) wants to walk around?”</p>	<p>[be:]</p> <p>i: > a: (preverb) + [bə]</p>
<p>pishikuâpanû [p̣əʃ̣ug̣wɑ:ḅmyu] “s/he blinks once”</p>	<p>pishipishikuâpanû [ḅiʃ̣əḅiʃ̣əg̣wɑ:ḅmyu] “s/he blinks his/her own eyes (blinking repeatedly)”</p>	[ḅiʃ̣ə]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
<p>pishikuâpu [bɪʃəgwɑ:bu:] “s/he closes eyes”</p>	<p>papishikuâpu [bɒbɪʃəgwɑ:bu:] “s/he closes eyes suddenly (all of a sudden you blink)”</p>	[bə]	<p>pepishikuâpit [be:bɪʃəgwɑ:bɪtʰ] “(who) blinks suddenly?”</p>	[be:]	<p>peshipeshikuâpaniut [be:ʃəbe:ʃəgwɑ:bmyutʰ] “(who) is blinking?”</p>	<p>[be:ʃə] <i>Note the change in the base as well as in reduplicant</i></p>
<p>pishkushtinu [bɪʃɡʊʃdənu:] “have a nosebleed”</p>			<p>peshkushtinit [be:ʃɡʊʃdɪtʰ] “(who) is having a nosebleed?”</p>	[e:]		
<p>pishtaim^u [pəs:teym^h] “s/he strikes it (by accident)”</p>	<p>papishtaim^u [pəpɪʃteym] “s/he strikes it (by accident); striking off one thing then another” ninipapishtain [ni:nəpəpəsteyn] “I am striking off one thing then another”</p>	<p>[pə] [pə] <i>Note that <ni> is also doubled.</i></p>	<p>peshtaik [pesteyk^h] “(who) strikes it?”</p>	[e]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
pishtishu [bɪstɪʃu:] “cut accidentally”	papishtishu [bəbɪstɪʃu:] “cut here and there” nipapishtishun [nəbəbɪstɪʃʊn] “I cut here & there”	[bə] [bə]	peshtishut [pɛstəʃʊt] “(what) is s/he cutting?”	[ɛ:]	pepishtâk [be:bɪstahæk ^h] “(what) is s/he cutting?”	[be:]

XXXIV. C/I/ <ti> /tI/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tipanashteu [tɪba:nɪʃtɪw] “he separates it; (things already separated)”	tâtîpânashteu [tæ:tɪba:nɪstewa ^h] “a pile of things are already separated”	[tæ:]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tipânam ^U [tɪbæ:nəm] “separate one or two things”	tâtîpânam ^U [tæ:tɪbæ:nəm] “s/he separates, sorts it” nitâtîpânin [nɪtæ:tɪbæ:nɪn] “I separate, sort things” uî tâtipânam ^U [wi: dæ:dɪbæ:nəm] “s/he is trying to separate it”	[tæ:] [tæ:] [dæ:]			tiâtîpânâk [diyæ:dɪba:nak ^h] “(who) is separating it?” uâ tâtipânâk [wa: dæ:dɪba:nak ^h] “(who) is trying to separate it?”	[diyæ:] i: > a: (preverb) + [da:]
tipâpitam ^U [di:bɑ:bədəm] “rolls a cord, a line around once”	titipâpitam ^U [ti:təbæ:bədəm] “s/he rolls a cord, line around it”	[ti:]			tiatîpâpitâk [tiyadəbɑ:bədɔk] “(who) rolls a cord around it?” e titipâpitâk [e:ti:təbɑ:bədɔk] “(when) he rolls a cord around it”	[tiya] [e:] (e-conjunct) + [ti:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
ti(ta)pâpitamueu [ti:təba:bidɪm(wɛw)] “wrap once”	titi(ta)pâpitamueu [ti:ti:təba:bidɪm(wɛw)] “s/he wraps them (anim) around and around”	[ti:]				
tipâtshimu [ti:pa:ɕɪmu:] “s/he tells a story”	titipâtam ^U [di:di:ba:dɔm] “s/he tells a story about it over& over” nitipâten [nɪtə:ba:dɪn] “I’m telling a story over & over”	[di:] [tə]	tiâpâtshimut [tiyæba:ɕɪmɔt ^h] “(who) tells a story?” e tipâtshimut [e:ti:pa:ɕɪmɔt ^h] “when s/he tells a story”	[iyæ] [e:] (<i>e- conjunct</i>)	tetipâtâk [de:dəba:dæk ^h] “(who) is telling a story over & over?”	[de:]

XXXV. C/I/ <mi> /mI/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
minâtam ^u [mmæ:dom] “s/he smells it”	mâminâtam ^u [mæ:mînæ:dom] “s/he keeps smelling s.t.”	[mæ:]	menâtâk [me:næ:dak ^h] “(who) smells it?”	[e:]	miâminâtâk [miyæ:mønæ:dak ^h] “(who) keeps smelling it?”	[miyæ:]
minu [mnu:] “s/he is drinking”	maminu [məmɪnu:] “s/he keeps drinking”	[mə]	menit [mɛn:t ^h] “(who) is drinking?”	[ɛ]	menimint [me:nəmɪnt ^h] “(who) is drinking a couple of sips now & then?”	[me:nə]
	miniminu [mməmɪnu:] “s/he is drinking a couple of sips now & then”	[mmə]	mentshi [mɛn:ʤi ^h] “(when) she drinks”	[ɛ]		
	niminimintin [nəmm:əmɪ(n)dɪ] “I am drinking a couple of sips now & then”	[mm:ə]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
minuâshu [m̩muwa:ʃu:] “s/he sneezes”	maminuâshu [m̩m̩muwa:ʃu:] “s/he keeps sneezing” nimaminuâshun [n̩m̩m̩muwa:ʃu:n̩] “I keep sneezing”	[m̩ə] [m̩ə]	menuashu [m̩ɛnuwɔhu] “(who) is sneezing?”	[ɛ]		
minuâteu [m̩nuwæ:diw ^h] “s/he likes him/her”			menuâtât [m̩ɛnuwæ:dat ^h] “(who) likes him/her?”	[e]		
minukushu [m̩mu:ɡʊʃu] “s/he is drunk”			menukushut [m̩ɛnuwʊʃʊt ^h] “(who) is drunk?”	[ɛ]		
minu-tshishikâu [m̩m̩ʊʒi:ʃiɡɔw] “it is a fine day; the weather is fine”			menu-tshishikâtshi [m̩ɛnʊʒi:hiɡæʒi] “when the weather is fine”	[ɛ]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mishkam ^u [mɪʃ:kʊm] “s/he finds it”	mamishkam ^u [mʌmɪʃkʊm] “s/he finds something everywhere, finds things (e.g. bullets, candy) scattered around nimamishkumatishun [nə m :əmɪʃkʊmæ:di:ʃʊn] “I am finding things scattered around”	[ma] [m:ə]	meshkâk [mɛʃ:gak ^h] “(who) finds it?”	[ɛ]		
mishpun [mɪʃpʊn] “it is snowing”	mamenishpun [məme:nɪʃpʊʔn] “it's snowing - occasional snow flurries”	[mə]	meshpuak [mɛʃp ^w ak ^h] “(where) is it snowing?” e mishpunit [e mɪʃpʊnit ^h] “when it is snowing”	[ɛ] [e] (<i>e-conjunct</i>)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mitunenimeu(?) “s/he thinks about someone”	mâmitunenimeu [ma:midne:nimew] “s/he is thinking about someone” mâmitunenitam ^u [ma:midne:ndam] “s/he thinks about something”	[ma:] [ma:]			miâmitunenimât [miya:mıtne:nəmat] “(I know) s/he is thinking about someone”	[miya:]

XXXVI. C/I/ <ni> /nI/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nikamu [nik:əmu:] [nəkɪmu: ^h] “s/he sings”	nanikamu [nənɪkəmu:] “s/he keeps singing” nanikamutin [nənɪkəmu:dɪn] “I keep singing” nuî nanikamun [nəwi:nənəkəmun] “I’m trying to keep singing” ninikamuteu [ninɪkəmuðew] “s/he’s walking along singing”	[nə] [nə] [nə] [ni]	nekamut [nekəmut ^h] niâkamut [niyəkɪmut ^h] “(who) is singing?”	[e] [iyə] <i>(two types of outcomes for IC)</i>	nenikamut [ne:nɪkəmut ^h] “(who) keeps singing?”	[ne:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nipaieu [nɪpɛw] [nɪpɛw] “s/he kills him/her”	ninipaieu [nɪnɪpɛw] [nɪnɪpɪw] “s/he kills one, then another; s/he kills one after another” nininipauit [nɪnɪnɪpɔwtʰ] “I am killing one after the other”	[nɪ] [nɪ̃] [nɪ̃]	nepât [ne:pætʰ] “(who) is killing him/her?”	[e:]		
nipâu [nɪpɔwʰ] “s/he is sleeping”	nanipâu [nɔnɪpɔw] “s/he sleeps now & then (morning, afternoon, night)”	[nɔ]	niâpât [nɪyɔpætʰ] “(who) is sleeping?” e nipât [e nɪpætʰ] “while s/he is sleeping”	[ɪyɔ] [e] (<i>e-conjunct</i>)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
nisht ^U [nɪʔ ^h] “three”	nânisht ^U [nɑ:nɪʔ ^h] “three each” nânishtuau [nɑ:nɪʔwɔw] “three at a time”	[na:] [na:]				

XXXVII. C/I/ <shi> /ʃɪ/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
shiniku [ʃɪnɪgu:] “s/he is blowing his/her nose”	shishiniku [ʃɪʃɪnɪgu:] “s/he keeps blowing his/her nose”	[ʃɪ]	shenikunikut [ʃɛnɪgʊnɪgʊt ^h] “(who) is blowing his/her nose?” e shinikut [e ʃɪnɪgʊt ^h] “while s/he is blowing his/her nose”	[e] [e] (<i>e-</i> <i>conjunct</i>)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
shishtikut [ʃɪ:ʔɪgu:] “s/he spits once”	shishishtikut [ʃɪʃɪʔɪgu:] “s/he spits over & over” nishishishtikun [niʃɪʃɪʔɪguŋ] “I spit repeatedly”	[ʃɪ] [ʃɪ]	shieshtikut [ʃiɛ:stʊgʊtʰ] “(who) is spitting?”	[iɛ:]		

XXXVIII. C/I/ <tshi> / tʃɪ/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tshikatshinâssimau [tʃɪgəʔnæ:siməw] “s/he lies to her/him (once)”	tshikatshikatshinâssimau [tʃɪgəʔdʃɪgəʔnæ:siməw] “s/he lies to her/him over & over; lies many times” katshinâssimeu [gəʔɪnas:miw] “s/he lies to him/her many times”	[tʃɪgə] + [d] [gə]	ketshinâssimat [gɛ:dnæ:simatʰ] “(who) is lying to her/him?”	[e:] (<i>note alteration to base; IC is still consistent in applying to initial vowel</i>)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tshimikaitsheu [ɕʰiməgeyɕʰew] “s/he is cutting wood(with an axe)”	kakatshimikaitsheu [kəkəɕʰiməgeyɕʰew] [gəgəɕʰiməge:ɕʰew] “s/he keeps cutting (with an axe)” nikatshimikaitshin [nəkəɕʰiməgeyɕʰin] “I keep cutting it”	[kə] [gə] [kə]	tshemikaitshit [ɕʰeməge:sɪtʰ] “(who) is cutting wood?” tshiamikaik [ɕʰiyəməge:kʰ] “(what) is s/he cutting with an axe?” e tshimikaitshit [e ɕʰiməgaisɪtʰ] “while s/he's cutting wood”	[e] [iyə] [e] (<i>e-conjunct</i>)		
tshimuan [ɕʰəm:ʊn] “it's raining”	tshemuâk [ɕʰemwakʰ] “(I know) it's raining”	[e]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tshipaitshepanu [ɕɪbeyɕebunu:] “close by itself; go off by itself e.g. computer”	tshitshipaitshepanu [ɕɪɕɪbe:ɕebənu?] “it keeps closing, going off by itself”	[ɕɪ]	tshepaitshepanit [ɕɛpedɕabɪnt ^h] [ɕɛ:be:ɕe:bɪnt ^h] “(what) is closing by itself?”	[e] [e:]	tshapatshipaitshepanit [ɕɛ:bəɕəbe:ɕe:bɪnt ^h] “(what) keeps closing?”	[ɕɛ:bə]
tshishtâpautâu [ɕɪsta:bɔtaw] “s/he washes it”	kakashtâpautau [gəgəsta:budaw] “s/he washes one after another” nikakashtâpautan [nɪgəgəsdæ:budən] “I wash one after another”	[gə] [gə]	tsheshtâpautâk [ɕɛsta:bu:dæk ^h]	[ɛ]		

XXXIX. C/u/ <ku> /ku/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kushpin (?)	kukushpin [ku ^h kuʃpin] “I’m going to the country”	[ku ^h]				
kuseu [kʊs:iw] “s/he is fishing”			kuesset [kwɛsɪt] “(where) s/he is fishing” e kusset [e gʊssɪt ^h] “(s/he is good at) fishing”	[wɛ] [e] (<i>e-conjunct</i>)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kussikuâshu [gʊsəgwɑ:ʃu:] “s/he is sewing”	kussikussikuâshu [gʊsəgʊsəgwɑ:hu:] “s/he sews many times”	[gʊsə]	e kussikuâshut [e kusigwa:ʃʊtʰ] “(while) s/he is sewing”	[e] (<i>e-conjunct</i>)		
	kukussikuâtam ^u [gʊgʊs:iɡwɑ:dʌm] “s/he sews it many times, in different places”	[gʊ]	kuessikuâtâk [gwɛs:iɡwɑ:tækʰ] “(what) is she sewing?”	[ɛ]		
	kussikussikuâtam ^u [gʊsəgʊsəgwɑ:dʊm] “s/he sews it many times”	[gʊsə]				
	nikussikussikuatin [nəgʊs:iɡʊs:iɡwɑ:dɪn] [nəgʊsəgʊsʊgwɑ:dɪn] “I sew it many times”	[gʊs:i] [gʊsə]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
kutueu [kutuwew] “s/he builds, makes a fire”	kutukutueu [gʊtʊgʊtʊuwew] “s/he adds logs to the fire” nikutukutuin [nəgʊtʊgʊtʊuwin] “I’m adding logs to the fire”	[gʊtʊʋ] [gʊtʊʋ]	kuetuet [kwe:tʊwɪtʰ] “(who) is building, making a fire?” e kutuet [e kʊtʊwɪtʰ] “(while) s/he’s making a fire; (s/he is good at) making a fire”	[we:] [e] (<i>e-</i> <i>conjunct</i>)		
kutukunepinu (?)	kutukutukunepinu [gʊtʊgʊtʊgʊne:bɪnu] “s/he breaks, dislocates a joint, e.g. arm, leg”	[gʊtʊ]				

XL. Cu + V <puâ-> /pua:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
puâmu [pua:mo] “s/he dreams”			puiâmut [pwiyaemot ^h] “(who) is dreaming?”	[iyæ]		

XLI. Cu + V <pue-> /pue/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
puetshitu [bwe:ɕɪdu:] “s/he farts (once)”	puepuetshitu [bwe:bwe:ɕɪdu:] “s/he farts several times” nipuepuetshitun [nəbwe:bwe:ɕɪdun] “I keep farting”	[bwe:] [bwe:]	puietshitut [pwiyeɕɪtɔt ^h] “(who) is farting?”	[iye]	puiepuetshitut [b ^w iyebwe:ɕɪtɔt ^h] “(who) keeps farting?”	[iye]

XLII. Cu + V <mue->

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
mueu [mwew] “s/he eats it”	mamueu [mΛmwew] “s/he keeps eating it”	[mΛ]	muât [mwat̚] “(who) eats it”	[a:]		
	nimamuau [nəməmwəw] “I keep eating it”	[mə]	e muât [e mwatʰ] “while s/he is eating it”	[e] (<i>e-conjunct</i>)		

XLIII. Cu + V <tue->

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
tuepanu (?)	tetuepanu [t̚tue:pənu:] “clock ticking”	[t̚]				

XLIV. Vowel Initial < â > /a:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
âkuetuneu (?)	âiâkuetuneu [æ:yæ:gwa:dunryu] “s/he carries them (anim.) piled up one on top of the other”	[æ:(y)]				
	âiâkuetunam ^U [æ:yæ:gwe:dunom] “s/he carries it”	[æ:(y)]				
	âiâkuetushta [æ:yæ:gwe:duʃta ^h] “tell s.o. to carry s.t. (e.g. logs) piled up”	[æ:(y)]				
	nitâiâkuetushtan [nda:ya:gwe:duʃtan]	[a:(y)]				
	[ndaeyæwedu:ʃtan] “I carry them piled up one on top of the other (e.g. wood)”	[æ:(y)]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
âkushu [a:guʃu:] “s/he is sick”	aiâkushu [æyæ:guʃu:] “s/he keeps getting sick”	[æ(y)]	iâkushit [iɣa:guʃitʰ] “(who) is sick?”	[iya:]		
niâkushunan [niyæ:guʰnan] “we’re getting sick”	iâiâkushut [eyeyæ:guʃutʰ] “they’re all getting sick”	[e(y)e:(y)]	e âkushit [e yæ:guʃitʰ] “while s/he is sick”	[e] (<i>e-conjunct</i>)		
âpashtâu [æ:pistaw] “s/he uses it”			iâpashtât [iɣæ:bistatʰ] iâpashtain [iɣa:bistam] “(what) is s/he using?” e âpashtât [e yæ:bəʃtatʰ] “while s/he is using it” uâ âpashtât [wayæ:bistatʰ] “(who) needs it?” (also, “he ‘wants’ you”)	[iyæ:] [iya:] [e] (<i>e-conjunct</i>) i: > [a] (preverb)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
âpinam ^u [a:binum] “s/he unscrews it”			iâpinâk [iyæ:bənak ^h] “(who) is unscrewing it?”	[iyæ:]		
âshikuâteu [a:ʃigwa:diw] “s/he scolds him/her (once)”	âiâshikuâteu [æ:yæ:ʃigwa:diw] “s/he scolds him/her; she complains & complains, over & over” nitâiâshikuâtau [ɲdæ:yæ:ʃigwa:dɔw] “I am scolding him/her”	[æ:(y)] [æ:(y)]			iâiâshikuâtât [iyæyæ:ʃigwa:dat] “(who) is scolding him/her?”	[iyæ]
âshîkueu [æ:ʃi(g)wiw] “s/he complains, screams out, yells”	âiâshîkueu [æ:yæ:ʃi:gwiw] [ayæʃi(g)wiw] “s/he complains, makes a noise, cries out in pain” nitâiâshîkuin [ɲdæ:yæ:ʃi:gwiw] “I am complaining”	[æ:(y)] [a(y)] [æ:(y)]			iâiâshikuit [iyæyæ:ʃigwit ^h] [ɽyæ:yæʃigwit ^h] “(who) is complaining?”	[iyæ(y)] [ɽyæ:(y)]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
âshkuâpîtsheu (?)	âiâshkuâpîtsheu [æ:yæ:ʃgwa:biʃew] “s/he attaches things one after the other”	[æ:(y)]			iâiâshkuâpîtshe ⁿ âk [iyæ:yæ:ʃgwa:biʃenak ^h] “(who) is attaching things one after the other?”	[iyæ:(y)]
	nitâiâshkuâpîtshe ⁿ [ndæ:yæ:ʃgwa:biʃenɪn] “I am attaching things one after the other”	[æ:(y)]				
âshkûmeu (?)	âiâshkûmeu [æyæ:ʃkumew] “s/he eats it (e.g. bread, cookies) one after another”	[æ(y)]				
âsh ^t meu(?)	âiâsh ^t meu [æyæ:ʃte:mew] “s/he argues, answers him/her back”	[æ(y)]			iâiâsh ^t emut [iyæyæ:ʃte:mot ^h] “(who) is arguing with him/her?”	[iyæ(y)]
	âiâsh ^t eu ^e [æyæ:ʃte:wew] “s/he keeps answering back (arguing with many people)”	[æ(y)]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
âshûteu(?)	âiâshûteu [æ:yæ:ʃu:tew] “s/he walks from one place to the next”	[æ:(y)]				
âtshipanu [a:ɕibinu:] “shake (moving; s.t., e.g. vehicle, moves)”	âiâtshipanu [yæ:yæ:ɕibinu] “shake; move repeatedly; back & forth, e.g. trees moving back & forth” nitâiâtshipitin [ɲdæyæ:ɕibitn] “I’m shaking”	[yæ:(y)] [æ(y)]	iâtshipanut [(i)yæ:ɕibinyut ^h] “(who) is moving?” e âtshipanut [e yæ:ɕibinyut ^h] “while he is moving”	[(i)yæ:] [e] (<i>e-conjunct</i>)	iâiâtshipinit [iyæ:yæ:ɕibint ^h] “(who) is shaking?” e âiâtshipanut [i yæ:yæ:ɕibinyut ^h] “while he is moving back and forth, rocking”	[iyæ:(y)] [i] (<i>e-conjunct</i>) + [yæ:y]
âtshiû [yæ:ɕiw] “s/he moves”	âiâtshiû [a:ya:ɕu:] “s/he moves around” nitâiâtshin [ɲdæ:yæ:ɕin] “I am moving”	[a:(y)] [æ:(y)]			iâiâtshit [yæyæɕit] [iyæ:yæ:ɕit ^h] “(who) is moving?”	[yæ] [iyæ:]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
âtutsheu [æ:tutʃɛw] “s/he moves house”	âiâtutsheu [iɣæ:tutʃɛw] “s/he changes house, moves camp often”	[i(y)]				
âmissaim (?)	âiâmissaim [ɣiɣæ:məseym] “stirring tea”	[ɣi:(y)]				
âtâkamaim ^u (?)	âiâtâkamaim ^u [ɣæɣæ:tagəmeym] “s/he stirs the liquid with an instrument (e.g. spoon)”	[ɣæ(y)]				
âtassin (?)	iâiâtassin [ɣæiɣæ:dæs:iɪn] “moving back and forth (e.g. s.t. floating, moving back & forth in water”	[ɣæ:(y)]				
âusseim ^u [awsɛym] [ɣæwsɛym] “s/he stirs (once)”	âussiâusseim ^u [awsiawsɛym] “s/he keeps stirring”	[awsɪ]				

XLV. Vowel Initial < û > /u:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
ûnipanu [u:nəpənu] “s/he wakes up at night (once)”	ûnûnipanu [u:nu:nəpənu] “s/he keeps waking up”	[u:n]			ûnûnipinit [u:nu:nəpɪnt] “(who) keeps waking up?”	[u:n] (no change)
ûnu [u:nu:] “it howls”			ûnut [u:nɔt ^h] “(what) is howling?”	[u:] (no change)		
ûpinam ^u [u:pɪnəm] “s/he lifts it up”	ûpûpinam ^u [u:pu:pɪnəm] “s/he lifts many things one after another” nûpûpinin [nu:pu:pɪnɪn] “I am lifting many things one after another”	[u:p] [nu:p]				

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
ûpitam ^u [u:bɪdʊm] “s/he lifts it”	ûpûpitam ^u [u:bu:bədʊm] “s/he lifts the same thing again and again (e.g. weights)”	[u:b]			ûpûpitâk [u:pʊ:pədak ^h] “(who) is lifting it up, again & again?”	[u:p]

XLVI. Vowel Initial < a > /I/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
akûtin [aku:tɪ] “it floats (on water, e.g. boat)	aiakûtina (?) [iye:gu:dɪa ^h] “a lot of s.t. (e.g. boats) are floating”	[i(y)]	ekutik [ekudɪk ^h] “(what) is floating?”	[e]		
akûtshinu [aku:tʃɪnu] “it floats; e.g. clouds up in sky”						

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
ashameu [æʃ:əmew] “s/he feeds him/her”	aiashameu [iye:ʃ:imew] “feeding more than one; one at a time” niaiashamâuat [niyeyʃiməwt ^h] “I am feeding more than one, one at a time”	[i(y)] [i(y)]	eshamât [eʃimat ^h] “(who) is feeding him/her?”	[e]		
atshimeu [atʃimiw] “s/he counts them (anim)”	aiatshimeu [ye:itʃimew] “s/he counts them (anim) over & over”	[ye:]	etshimât [etʃimat ^h] “(who) is counting them?” e atshimât [e:ʃimat ^h] “while s/he is counting them”	[ɛ] [e:] (<i>e-conjunct</i>)		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
atusseu [atus:iw] “s/he works”	aiatusseu [iye:disiw] “s/he works here and there” niaiatussin [niyeytussin] “I am working here & there”	[i(y)] [i(y)]	etussen [ɛtu:sɛn] “(where) is s/he working?”	[ɛ] [ɛ]		
aimu [eymu:] “s/he talks”			iaimit [iyeyimɪtʰ] “(who) is talking?” e aimit [e: i:mɪtʰ] “while s/he is talking”	[iye(y)] [e:] (<i>e-conjunct</i>)		

XLVII. Vowel Initial < i> /I/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
ikutuâshu [i:kudwa:ʃu:] “s/he’s hanging out clothes”			ekutuâshut [e:kud ^w ɔhɬ ^h] “(who) is hanging out clothes?”	[e:]		
ishinam ^u [iʃɪnɒm] “s/he sees it in a dream (also, sees s.t. not really there, e.g. a ghost)	iaishinam ^u [iye:iʃɪnɒm] “s/he sees it in a dream , bits here & there”	[iye:]	eshinâk [e:ʃɪnɒk ^h] “(what) does s/he see in a dream?”	[e:]		
ishkuâteu [ɪkwa:dew] “it is burning”			eshkuâtît [ɛkwa:dɪt ^h] “(what) is burning?”	[ɛ]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
ishpanu [i:ʃpənu] “it keeps going”	ishpishpanu [i:ʃpi:ʃpənu] “it keeps going (here & there)” uî ishpishpanu [wi:ʃpi:ʃbənu] “s/he wants to keep going”	[i:ʃp] [(i):ʃp]			eshpishpanit [eʃpi:ʃbɛntʰ] “(what) keeps going?” uâ ishpishpanit [wa: iʃpi:ʃbɛntʰ] “(who) wants to keep going?”	[eʃp] i: > a: (preverb) + [iʃp]
itâshkuaim ^u [idæ:ʃgweym] “s/he's pushing it with a stick (once)”	ititâshkuaim ^u [i:di:dæ:ʃgweym] “s/he's pushing it with a stick” nitititâshkuaim ^u [ndi:di:dæ:ʃgweym] “I'm pushing it with a stick”	[i:d] [(d)i:d]	etâshkuaik [e:dæ:ʃgwɪkʰ] “(who) pushes it with a stick (once)?”	[e:]	etitâshkuaik [e:di:dæ:ʃgwɪkʰ] “(who) keeps moving it with a stick?”	[e:d]

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
itenitam ^u [ɪtenɪdɔm] “s/he thinks”			etenitâk [eten:dak ^h] “(what) does s/he think?”	[e]		
itûteu [i:tu:tew] “s/he goes (somewhere, by foot)”	ititûteu [i:ti:tu:dew] “s/he's going somewhere by foot; describing how s/he's walking”	[ɪt]	etûtît [etu:dɪt ^h] “(I know where) he is going (by foot)”	[e]		

XLVIII. Vowel Initial < î > /i:/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
îteu [ɪtiw] [i:tew] “s/he tells it to him/her”			etât [etât: ^h] “(what) does she tell him?”	[e:]		

XLIX. Vowel Initial < u > /u/

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
ushinu [u:ʃɪnu:] “smile, laugh at” ushinueu [u:ʃɪnuwɪw] “s/he laughs”	uaushinueu [wɑ:u:ʃɪnwɪw] “s/he makes fun of, mocks him/her” niuâushinuau [nəwɑwɪwɪwɔw] “I am making fun of him/her”	[wa:] [wa]	ueshinâk [weʃɪmak ^h] “(what) is she smiling at?”	[we]	ueushinât [weo:ʃɪmat ^h] “(who) is s/he making fun of?” e uaushinuât [e wɑwɪwɪwat ^h] “while s/he is making fun”	[we] [e:] (<i>e- conjunct</i>) + [wɑ]
ushtam ^u (?)	ushtushtam ^u [uʃtɪʃtɔm] “s/he coughs” nushtushtin [nu:ʃtɪʃtɪn] [nu:ʃtəʃtɪn] “I am coughing”	[uʃt] [u:ʃt]			ueshtushtâk [we:stɪstak ^h] ueushtushtâk [weyʃtəʃtak ^w] “(who) is coughing?”	[we:st] [we(y)] (<i>IC outside redup. <usht></i>)

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
utâmueu [utæ:mwew] [utamwew] “s/he hits him/her”	ututâmueu [utətamwew] “s/he hits repeatedly” ututâmishimeu [utota:miʃimiw] “s/he hits” nututâmuau [nutu:tæ:mwɔw] [nutətota:mwɔw] “I am hitting him/her (repeatedly)”	[ut] [ut] [u:t] [u:t]	uetâmuat [we:tæ:mwat ^h] “(who) is hitting him?”	[we:]	ueûtutâmuât [weodəda:mwɔt ^h] “(who) is hitting him/her (repeatedly)?”	[wɛ] (Note IC <i>outside redup.</i> <i><ut>.</i>)
unîu [u:nyu:] “s/he gets up from bed”			uenît [wenit ^h] “(when) does s/he get up from bed?”	[wɛ]		

Base	Reduplicated Form	RED.	Initial Change Form	IC	Reduplication/IC	RED/IC.
utshipanû [utʃipənu] “hauls; for speaker word sounds like 'shrink', e.g. a moccasin is wet & shrinks & you try to straighten it out”						
utshipateu [utʃibədew] “s/he grabs & hauls someone (e.g. falling & grabbing s.o.)”						
nutshitâtshimâu [nuɕɪdæɕiməw] “I’m dragging someone”	nâniutshitâtshimâu [næ:niwɪdæ:ɕiməw] (<i>subject prefix reduplicated?</i>)	[næ:]				
	nutshutshitatshimâu [nuɕuɕɪdæɕiməw] “I keep dragging someone”	[uɕ]				