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▶ To cite this version:

Lameen Souag. Siwi addressee agreement and demonstrative typology. STUF, 2014, Berber in typological perspective, 67 (1), pp.35-45. 10.1515/stuf-2014-0004. halshs-01376214

HAL Id: halshs-01376214 https://shs.hal.science/halshs-01376214

Submitted on 5 May 2021

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Postprint of:

Souag, Lameen. 2014. Siwi addressee agreement and demonstrative typology. In ed. Catherine Taine-Cheikh, *STUF – Language Typology and Universals* 67:1, *Berber in typological perspective*, pp. 35-45. DOI: 10.1515/stuf-2014-0004.

Siwi addressee agreement and demonstrative typology

Abstract: Siwi, a Berber language of Egypt, shows gender / number agreement of medial demonstratives with the addressee. Such phenomena are cross-linguistically very rarely reported, and are not discussed in major surveys of the typology of demonstratives (Diessel 1999; Imai 2003). However, within person-oriented demonstrative systems, such marking amounts to an iconic representation of addressee anchoring. The pragmatics of Siwi demonstratives thus cast light on the nature of the mapping from person to place that such systems reflect (Greenberg 1985). Comparative eastern Berber data suggests that demonstrative addressee agreement may be more widespread than the literature reflects.

Keywords: Berber, agreement, demonstratives, person-oriented, allocutivity

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1. Introduction

Typological parameters relevant to the description of demonstrative systems have been the subject of extensive investigation (Diessel 1999; Imai 2003). One of the best-known is distance-oriented vs. person-oriented (for Imai, addressee-isolated vs. dual-anchor). The latter type, with a proximal 'near speaker' and a medial 'near hearer', has been recognised for over a century (Brugmann 1904; Anderson & Keenan 1985). Such systems amount to a mapping of space with reference to the participants; as Greenberg (1985:277) put it, "person becomes the model for place as the icon." This would make person markers on the appropriate demonstrative terms iconic. In principle, their incorporation should entail demonstrative agreement with the addressee, producing addressee agreement.

This phenomenon is, in practice, hardly ever reported: addressee agreement is absent from even the most extensive available cross-linguistic typological surveys of demonstrative systems. However, Siwi – a Berber language spoken in western Egypt – is one of the very few languages worldwide to use addressee agreement productively on demonstratives. (To the best of my knowledge, the only other

exceptions reported are Qur'ānic Arabic and Rāziḥī Arabic; cf. Watson (2006b:48).) As such, Siwi provides a unique window onto the mechanics of the mapping from person to distance, as well as illustrating a parameter that needs to be taken into account in language documentation.

2. Demonstratives in Siwi

2.1 General description

Pro/ad-nominal demonstratives in Siwi are inflected for number and gender (masculine/feminine), like 75% and 45% respectively of the 85 languages in Diessel (1999: 25); Siwi, however, distinguishes gender only in the singular. Adnominal demonstratives are formed from pronominal ones by adding a prefix da- (ta- in F.SG); presentatives ("here is...") by prefixing y- (x- in F.SG). In adverbial/locative contexts, where there is no referent with agreement features, the stems are proximal -a, medial -ok (etc.), distal -ih. Demonstrative adverbs of manner are formed by suffixing these to ams-. Specific location is formed by suffixing them to gd- (also used in Siwi as the pre-pronominal allomorph of "in"); vague location (IMAI 2003), to ss- (cp. s "from"). (Specific location is incompatible with distal -ih, presumably because the distal includes no anchor.)

Siwi has three distances, along with 38% of the 234 languages sampled in WALS (Diessel 2011). While the difference in form between the *wa* and *waya* series below suggests a fourth distance, no difference in reference has been observed, and speakers themselves describe *wa* as just an "abbreviation" of *waya*.

Place-holders ("whatchamacallit") use the synchronically distinct series *wihin* (M.SG, PL) / *tihin* (F.SG), historically deriving from distals, exemplifying a cross-linguistically common usage (HAYASHI & YOON 2006); these are nouns, and can even be modified by adnominal demonstratives, eg *wihin dawok* "that whatsit".

So far, this is typologically unexceptional. However, as shown by Table 1 (adapted from Souage 2010), it also features a phenomenon requiring closer attention: the medial term varies in form according to the gender and number of the addressee.

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	Proximal	Medial (to man)	Medial (to woman)	Medial (to group)	Distal
Pronominal: M.SG	wa(ya)	wok	wom	werwən	wih
- F.SG	ta(ya)	tok	tom	terwən	tih
- PL	wi(yya)	wiyyok	wiyyom	wiyyerwən	widin
Adnominal: M.SG	dawa(ya)	dawok	dawom	dawerwən	dawih
- F.SG	tata(ya)	tatok	tatom	taterwən	tatih
- PL	dawi(yya)	dawiyyok	dawiyyom	dawiyyerwən	dawidin
Presentative: M.SG	ywa(ya)	ywok	ywom	ywerwən	ywih
- F.SG	xta(ya)	xtok	xtom	xterwən	xtih
- PL	ywi(yya)	ywiyyok	үwiyyoт	ywiyyerwən	ywidin
Locative	gda(ya)	gdok	gdom	gderwən	-
Approximate locative	ssa	ssok	ssom	sserwən	ssih
Manner adverb	amsa	amsok	amsom	amserwən	amsih

2.2 Addressee agreement

The agreement of the medial demonstrative with the addressee is illustrated by the following minimal pairs, mostly from a retelling of the story of Joseph:

Standalone medial, referent = M.SG, different addressees:

- 1 *yə-mm-as:* a wəldi... wo-k xer a-zuwwar 3M-say-3sg.dat: oh son... dem.m-2:m good m-great He told him: O my son... that is a great good.
- 2 *yə-mm-as i talt-ənnəs:* **wo-m** *ge-yə-nfu-yanax* 3M-say-3sg.dat to woman-3sg.gen: DEM.M-2:F IRR-3M-benefit-1pl.dat He told his wife: **this one** will benefit us.
- 3 yə-mm-asən: we-rwən aggwid n rəbbi 3M-say-3PL.DAT: DEM.M-2:PL man GEN God He told them: this is a man of God.

Modifying medial, referent = F.SG., different addressees:

- 4 tasútət ta-tó-k təlla múddət-laςmər palm_tree мор-рем.ғ-2:м 3ғ.be_at lifetime That palm tree has been around for ages. (addressing male researcher)
- 5 ántf-ax twərdət ta-tó-m msabb-kí pick-1sg flower mod-dem.f-2:f because-2f I picked this flower for your (f.) sake.
- 6 mm^wi-y-asin-a i itadəm-ənnəw: say-1sg-3pl.dat-prf to people-1sg.gen

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g-úsəd g əlsarbiyya ta-té-rwən IRR.3M-come in car MOD-DEM.F-2:PL I told my family: he will come in that car.
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The suffixes used to mark addressee agreement on the medial demonstrative are closely parallel to the 2^{nd} person prepositional object suffixes: $2_{M.SG} - \partial k$, $2_{F.SG} - \partial m$, $2_{PL} - w \partial n$.

The most obvious typological comparison for addressee agreement is verbal allocutivity — a phenomenon best known from Basque (Alberdi 1995), but also attested in several other languages (Antonov 2010). Verbal allocutivity is typically restricted to main clauses rather than subordinate clauses. Addressee agreement, however, occurs irrespective of the level of syntactic embedding, as illustrated by multiply layered possessives:

7 **y-wé-rwən** şṣáħəb n jír n aggwid **da-wé-rwən** prsv-pem.m-2:pl friend gen child gen man mop-pem.m-2:pl Here is that man's child's friend.

and multiply embedded subordinate clauses:

8 *mm^wi-y-asín-a nə-xs-á asənsən ənni ga-nə-ħməṛ-wət* say-1sg-3pl.dat-prf 1pl-want-pfv to sit down comp irr-1pl-look-pl.imp

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mámək ga-nəttáws-as i aggwid da-wé-rwən how IRR-1PL-help-3sg.dat to man MOD-DEM.M-2:PL I told them that we want to sit down to look at how to help that man.
```

Addressee agreement must be self-consistent; when the following inconsistent sentence was proposed to him, my consultant reacted "As long as you're saying *ga-š-y-ak* (2M.DAT), you say *da-wo-k* [MOD-DEM.M-2:M]":

9 *ga-š-y-ak ssanduq da-wó-m *IRR-give-1sg-2m.dat box mod-dem.m-2:F I will give you that box.

As the following sentence illustrates, there is no such inconsistency between a singular addressee and a plural 2nd person pronoun; after all, an object can equally well simultaneously be close to a whole group and to a single member of it:

10 ga-š-y-áwən ssanduq da-w-ók
IRR-give-1sg-2pl.dat box MOD-DEM.M-2:M
I will give you that box.

2.2 Usage of the medial

As we expect from the presence of addressee agreement on the medial term, the Siwi demonstrative system is speaker/addressee-anchored. The nature of this anchoring needs closer examination, since, as well as marking spatial location, but demonstratives serve several other discourse and information structure functions.

The system is most clearly revealed in accessibility contrasts: items only accessible to the speaker use the proximal, ones accessible to the listener use the medial, and ones inaccessible to both the distal. When an item is equally associated with or accessible to the speaker and the addressee, the medial series is preferred. Thus, in the following examples¹, the speaker was watching a film, while the listener could not see the screen but could hear the sound, yielding the following contrast:

- 11 áh, wo-k əlháss n tiyéda ah DEM.M-2:M sound GEN goats Ah, **this** is the sound of goats.
- 12 *tyátt tá-ta ššəkl-ánnəs n-azágru*.
 goat MOD-DEM.F shape-3sg.GEN [goat sp.] **This** goat looks like a *n-azəgru* (breed).

Most Berber demonstrative systems include separate anaphoric forms for marking old information, eg Kabyle -*nni* (Mettouchi 2011). In Siwi, no such form exists; rather, the medial demonstrative is typically used, marking the information as accessible to the listener. For instance (describing a festival, many months away):

13 *i-ṣəmmá-n* [...] *ə n-asə́qqəd n mjárdag*. 3-cook.ıpfv-pl uh GEN-to make hot GEN mjardag.

¹ All Siwi data is from the author's fieldwork unless otherwise indicated.

They cook ... uh, *mjardag* stew (made of bread and meat).

wó-k lázəm itádəm nnúba ge-y-čč-án.

DEM.M-2:M must people all IRR-3-eat-PL. **This**, all the people must eat.

The same applies, naturally, to recognitional usages:

14 *tšáṭṭat, tó-k* wən t-Sáṃmar tə-ṣṣáy-a əlSárjun n téni.
rachis DEM.F-2:M REL 3F-be.IPFV 3F-hold-PRF cluster GEN date
The rachis is **that** thing that holds the date clusters (in place).
(referring to palm trees; no palm tree was visible or previously mentioned)

Conversely, items new to the discourse – notably including the topics of questions – are usually marked with the proximal demonstrative:

- 15 *hánta wa i-támma-n-as?*what? DEM.M 3-say.IPFV-PL-3SG.DAT?
 What do they call **this/that**?
- 16 **táya** tšáṭṭət.

 DEM.F rachis

This is the rachis. (showing the parts of a bird trap; no previous mention.)

This discourse-oriented usage often overrides both spatial considerations:

17 hánta wáya wən ənnij g əssmá? what? DEM.M REL up in sky What is that up there in the sky?

and considerations of accessibility:

- 18a *hánta* **wáya** wən zṛá-tt slə́ttin?
 what? DEM.M REL see-2sg>3m.ACC yesterday?
 What was that (thing) you saw yesterday?
- b **wó-k** wən zṛá-x-t sláṭṭin izám

 DEM.M-2:M REL see-1sG-3M.ACC yesterday gazelle

 That (thing) I saw yesterday was a gazelle.

The proximal terms have an additional function of expressing contrastive alternatives: "one... the other..." is wa... wa... This overrides spatial functions of the proximal-medial distinction, as in the following scenario:

A and B are sitting in a room with four books on the desk, two of them green. A tells B to go get the green book. B goes and puts his hand on one of them, and says: wá? / wáya? [This one?] A replies:

```
19 ulá, wá.
no, DEM.M
No, the other one.
```

Purely exophoric usages of the demonstrative system are also found. The clearest contrast is between proximal/medial demonstratives (near the conversational dyad) on the one hand and distal (away from the conversational dyad) on the other, as in:

```
20 tó-k isiwan, t-íh ayə́ṛmi

DEM.F-2:M Siwa, DEM.F-DIST Aghurmi

This is Siwa (where the speaker is), that's Aghurmi (another village).
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Spatial contrasts between the proximal and medial series are also attested – thus, from a video explaining how a bird trap works (both first mentions):

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21a i-Sómmar yúr-əs əgdáya tasəmmátt, [...]
3m-be at-3sG here rope
It (the trap) has a rope here [...] (side of trap closest to speaker)

b t-Sómmar t-ugíl-a gdó-k
3F-be 3F-hang-PFV here-2:M
It (the bait) gets suspended here. (further from speaker, closer to hearer)
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However, the spatial distinction appears to be the least important function of the latter, in that it is normally overridden by accessibility (as in the following example), information status (as in 17), and even contrastiveness (as in 19).

```
22 wó-k iləs-ə́nnəw

DEM.M-2:M tongue-1sg.GEN

This is my tongue.
```

3 Addressee agreement and documentation gaps

The fact that in a typical elicitation situation the addressee is always the linguist is what has led to the omission of addressee agreement from previous descriptions of Siwi (Laoust 1931; Vycichl 2005), which give only M.SG addressee forms. There is reason to suspect a similar gap in other eastern Berber data. The closest relatives of Siwi, spoken in Libya, are the varieties of Sokna (Sarnelli 1924), El-Fogaha (Paradisi 1963). The two articles cited are the only published source of textual data

on these varieties, and it is not clear whether either is still spoken. Both, unusually for Berber but like Siwi, use a suffix -k in non-proximal demonstratives (Table 2).

No textual examples of the demonstrative in question are available for El-Fogaha, so nothing can be said about its usage there. For Sokna, the demonstrative in question occurs three times in the surviving text corpus (all in text IV, Sarnelli 1924:34), never in quoted speech, so there is no way to determine whether it shows addressee agreement. Two occurrences are in the context of a dialogue between a man and a king, both previously mentioned: "the man said to that king (*iyissélṭān udînak*)... And he did not say to that man (*imâr udînak*) ...". The third is temporal: "at that time (*děluqö*t eddînak*) they brought the king his supper". In each case, its usage is anaphoric, like Siwi wok. If any speakers of either language remain, it would be very interesting to test their usage with non-masculine singular addressees.

Table 2: Demonstratives in Sokna and El-Fogaha

	proximal		distal		
	Sokna	El-Fogaha	Sokna	El-Fogaha	
Pronominal: M.SG	wā	wa	udînak	wenhák	
- F.SG	tā	ta	eddînak	tenhák	
— M.PL	ummâ	wi	ummadînak	wenhák	
- F.PL	ntî	ti	ntidînak	tenhák	
Adnominal	eddâ	SG dda, PL ddi	(= pronominal)	ddén	
Presentative: M.SG	ukkâ	akkâ			
- F.SG	ukettâ	akettâ			
— M.PL	ukummî			akkên	
- F.PL	ukuttî			akettên	
Locative	dā			denhâk	

Another somewhat promising case is to be found in the closest Berber neighbour of Siwi, the variety of Awjila (Paradisi 1960). This variety is not at all closely related to Siwi, but shows some signs of contact convergence. It, too, has a demonstrative in -k, contrasting with at least three other demonstrative series — more than any other variety examined thus far — none of whose usage has been described in any detail, as the vague and overlapping labels below suggest:

Table 3: Demonstratives in Awjila

	proximal	proximal	proximal	medial	distal
Pronominal: M.SG	wá	wāya	wék		wîwan
- F.SG	tá	tāya	ték		tîwan
— M.PL		wîya			widânin
— F.PL		tîya			tidânin
Adnominal: sg	-é	-áya	-ék	-ídīn	-iwan
— PL		-îya	-îyek		-idânīn
Locative	dîla		dîlak		dilîwan
Ablative	sîla		sîlak		diššîwān
Manner adverb			tûdīk		

As noted by VAN PUTTEN (2013:125), PARADISI 1961 (the only published source for Awjila texts) provides two textual examples of the relevant demonstrative's usage, in a version of Aesop's fable of the Bundle of Sticks: "afterwards he told them: look, you are like these sticks (tġarīwīn-îyek); if you gather yourselves together you will remain like these sticks (am těġarīwîn-îyāk)". The context indicates that the sticks were in the hearers' hands; the apparent usage of the demonstrative here for indicating proximity to the hearers is again in line with the function of Siwi wok, suggesting a common history. Both of these examples are in quoted speech with a plural addressee, suggesting that addressee agreement, if it exists at all in Awjila, is not obligatory. However, comparison with Siwi example 10 above shows that this is not conclusive, since each individual stick was close to an

individual addressee, not to the group as a whole. In Awjila, too, the possibility of variable addressee agreement ought to be tested for in the event of further fieldwork.

4 Conclusion

The case of Siwi shows that the mapping of deixis onto person in person-oriented demonstrative systems can be iconically represented by the use of personal pronominal morphemes, leading to addressee agreement – a hitherto unrecognised form of deixis. In particular, addressee agreement is found both on listener-anchored spatial deictics and on listener-familiar anaphoric forms. While this phenomenon seems to be typologically unusual, the fact that linguists on the whole do not expect to find it and hence rarely look for it makes it likely that its frequency has been underestimated. Future documentation efforts, not only in Berber but also further afield, should test for this possibility.

Abbreviations

2:M/F/PL agreement with the		IMP	imperative
	masculine / feminine /	IPFV	imperfective
	plural addressee	IRR	irrealis
ACC	accusative	M	masculine
COMP	complementizer	MOD	adnominal prefix
DAT	dative	PL	plural
DEM	demonstrative	PRF	perfect
DIST	distal	PRSV	presentative
F	feminine	REL	relative
GEN	genitive	SG	singular

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