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# Archaic and innovative Islamic prayer names around the Sahara

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#### **Abstract:**

Berber in the Sahara and southern Morocco, and several West African languages including Soninké, Mandinka, and Songhay, all refer to the five Islamic daily prayers using terms not derived from their usual Arabic names, and showing striking mutual similarities. These names' motivation has not hitherto been explained. An examination of Islamic sources reveals that many correspond to terms attested within Arabic from an early period which have passed out of use elsewhere. Others, with a more limited distribution, reflect transfer from a time-keeping system widely attested among Berber-speaking oases of the northern Sahara. These results demonstrate that the variant prayer terminologies attested in the hadith reflect popular usages that were still commonplace at the time when North Africa was conquered, and underscore the conservatism of non-Arabic Islamic religious terminology in and around the Sahara.

Keywords: Arabic, Berber, Sahel, etymology, prayer, early Islam

#### 1. Introduction

North Africa occupies a special position in the history of Islam, as the first region to be separated politically from the caliphate while maintaining the religion. By the early Abbasid period, the coast had passed out of effective Abbasid control, while the fringes of the Sahara were dominated by Ibāḍī and Ṣufrī states which rejected not only the rule of the Abbasids but also their Sunnī orthodoxy, and were hence rather reserved in their attitude towards the works of the most influential religious scholars of the Abbasid era. This position is reflected in the religious terminology of the non-Arabic languages of the region, which preserve reflexes of variant forms attested in early Islamic traditions but obsolete in most other parts of the Islamic world.<sup>1</sup>

A significant number of Berber languages, along with some of their neighbours, refer to the five daily prayers of Islam using words that cannot be derived from their usual Arabic names; most of these are internal formations, briefly discussed by Naït-Zerrad (1998), while others are Arabic loans. Van den Boogert and Kossmann (1997) give Berber-internal etymologies for these forms, and argue that their consistent use by both Sunnī and Ibāḍī groups indicates that they must have been produced by a single centre of Islamisation, probably Ibāḍī, at a period before the Sunnī-Ibāḍī split became a significant factor in the region, ie no later than the Umayyad era. Comparable forms which have attracted less comment are also found in a number of west African languages – notably Soninké and

<sup>1</sup> Most, but not all; shortly after this article was accepted for publication, François de Blois (p.c.) pointed out that some of the names discussed here have close Persian parallels, which must be taken into account in future work.

Songhay, the languages of the first major Sahelian states to come into direct contact with Islam, as well as their neighbours to the south, such as Mandinka and Pular. This paper's appendix tabulates all available prayer names in languages for which data was available, along with references.

In this paper, I will show that some of these unexpected forms can be traced directly back to variants attested in the early hadith literature, via borrowing or calquing. While modern Islamic literature consistently refers to the prayers by the names Fajr / Subh (in the morning),  $Puhr^2$  (at noon), 'Aṣr (in the afternoon), Maghrib (at sunset), and 'Ishā' (at nightfall), mainly derived from terms referring to the time of day, authoritative earlier sources including Ṣaḥīḥ al-Bukhārī attest to the existence and wide usage within Arabic of alternative names for several of these prayers, as noted briefly in Wensinck (1987). These names have long since disappeared from Arabic usage, but reflexes of them continue to be used across much of North and West Africa. Their ubiquity throughout the Sahara constitutes compelling evidence that the first Arabs to introduce Islam to the region habitually used these alternative terms in their speech, and not the ones that have become usual. In this particular instance, seemingly non-standard traditions of Islam in the Sahara do not reflect local innovation, but rather provide information on the distribution of variation that was accepted within early Islam and only later came to be levelled out.

Other Berber forms that are almost as widespread, however, cannot be derived from Arabic through calquing or otherwise: they are rather derivations based on Berber numerals, with 'Aṣr = four, Maghrib = five, and 'Ishā' = six. The reasons for the choice of these numbers have not been convincingly explained. I will argue below that these forms reflect a system of time-keeping widespread among Saharan oases, and still used within living memory. The wide usage of these forms suggests that this time-keeping system too dates back at least to the Umayyad period.

#### 2. Early prayer names in Arabic

An obvious starting point for the early variation in prayer names is the hadith literature: convenient sources include Mālik (d. 795), 'Abd al-Razzāq (d. 826), al-Bukhārī (d. 870), and Muslim (d. 875). For the most part, these all use the familiar names mentioned above; however, they also faithfully record variants that do not correspond to the preferred terminology. Of several hadith reflecting these variations, the following (Bukhārī #547 (2001:114)) is particularly revealing:

· · · عن سيار بن سلامة، قال دخلت أنا وأبي، على أبي برزة الأسلمي، فقال له أبي كيف كان رسول الله صلى الله عليه وسلم يصلي المكتوبة فقال كان يصلي الهجير التي تدعونها الأولى حين تدحض الشمس ويصلي العصر ثم يرجع أحدنا إلى رحله في أقصى المدينة والشمس حية ونسيت ما قال في المغرب وكان يستحب أن يؤخر العشاء التي تدعونها العتمة وكان يكره النوم قبلها والحديث بعدها وكان ينفتل من صلاة الغداة حين يعرف الرجل جليسه ويقرأ بالستين إلى المائة.

The transcription followed in this paper for both Arabic and non-Arabic data uses the following digraphs: sh for  $[\[ \] \]$ , th for  $[\[ \] \]$ , chosen since Berber phonology makes extensive use of  $[\[ \] \]$ . The author thanks anonymous reviewers and Maarten Kossmann for helpful comments on earlier drafts.

"... from Sayyār b. Salama: "My father and I entered into the presence of Abū Barza al-'Aslamī. My father asked him: "How did the Messenger of God, blessings and peace be upon him, pray the prescribed (prayers)?" He replied: "He used to pray al-hajīr, which you (pl.) call al-'ūlā, when the sun declines (from the meridian), and pray al-'aṣr such that one of us could return to his home at the far end of Medina while the sun was still lively." I forget what he said about al-maghrib. "And he used to prefer to delay al-'ishā', which you (pl.) call al-'atama, and he used to hate sleeping before it or speaking after it. And he used to return from the ghadāt prayer when a person could recognise the one sitting next to him, and read sixty to a hundred ('āyāt.)""

The people in this conversation were most likely living in Basra in the early 8<sup>th</sup> century, but this hadith presents them not only as not using the set of prayer names familiar to modern Arabic speakers, but as each using a slightly different set of names. The familiarity of Abū Barza with the set he attributes to "you (pl.)", however, suggests that the latter rather than the former was prevalent in contemporary Basra. By implication, the terms for which he does not give an alternative were presumably common to both groups.

A similar usage combining features of both sets – possibly with reference to the times rather than to the associated prayers – is attributed to the Prophet himself in Mālik 3.3 (1985:78) = Bukhārī #652 (2001:132):

... from Abū Hurayra, that the Messenger of God, blessings and peace be upon him, said: "If people knew what is in the call and the first row, and found no (alternative) but to draw lots for it, they would draw lots. If they knew what is in *al-tahjīr* they would race each other to it. If they knew what was in *al-tahjīr* they would come to it even crawling."

Outside the hadith literature, the book *Al-Kāmil* by al-Mubarrad (d. 898), from Basra, mentions all three of the relevant terms, in a discussion of genitive constructions (Mubarrad 1864:128):

And 'atama is the name of a time, and the prayer at that time was named after it; every prayer is  $mud\bar{a}f$  (annexed) to its time, so you say:  $sal\bar{a}t$  al-ghad $\bar{a}t$ ,  $sal\bar{a}t$  al-duhr,  $sal\bar{a}t$  al-'asr. As for your saying: al- $sal\bar{a}t$  al-luh

A practically isolated term nevertheless attested quite early is *ṣalāt al-nawm*, reported in 'Abd al-Razzāq #2136 (Ṣan'ānī 1970:562):

"From Yaḥyā b. al-'Alā', from al-A'mash, from Abū Wā'il who said: I asked for Ḥudayfa, and he said: Why have you asked for me? I said: For conversation. He said: "Umar b. al-Khaṭṭāb, may God be pleased with him, used to warn against conversation after ṣalāt al-nawm."

A further dimension of variation applies to the meaning of al-' $ish\bar{a}$ '. Some speakers used this term to refer, not to 'Ish $\bar{a}$ ', but to Maghrib – a usage condemned as a Bedouin solecism in the following hadith, Bukh $\bar{a}r\bar{i}$  #563 (2001:117):

حدثنا أبو معمر - هو عبد الله بن عمرو - قال حدثنا عبد الوارث، عن الحسين، قال حدثنا عبد الله بن بريدة، قال حدثني عبد الله المزني، أن النبي صلى الله عليه وسلم قال " 
$$V$$
 تغلبنكم الأعراب على اسم صلاتكم المغرب". قال الأعراب وتقول هي العشاء.

... 'Abd Allāh al-Māzinī told us that the Prophet, blessings and peace be upon him, said: "Do not let the Bedouin prevail over you in the name of your prayer *al-maghrib*." He said the Bedouin, and they call it *al-'ishā'*.

This confusion might be avoided by referring to 'Ishā' as *al-'ishā' al-'ākhira*, as in Muslim 465c (2006:215):

... from Jābir b. 'Abd Allāh that Mu'ādh b. Jabal would pray *al-'ishā' al-'ākhira* with the Messenger of God, peace and blessings be upon him, then go back to his people and lead them in that prayer.

We can conclude that at least the following variants were current in Arabic in the Umayyad era:

1 2						
	"Standard"	"Basran"	Other			
Şubḥ	al-ṣubḥ	al-ghadāt				
Đuhr	al-đuhr	al-'ūlā	al-hajīr, al-tahjīr			
'Așr	al-'aṣr					
Maghrib	al-maghrib		al-'ishā'			
'Ishā'	al-'ishā'	al-'atama	al-'ishā' al-'ākhira, al-nawm			

*Table 1: Variant prayer names in Arabic.* 

A study of narrators might indicate whether these variants can be associated with particular regions or tribes, but that would take us beyond the scope of this paper. However, the same sources that indicate these variants also help explain their disappearance. The emergence of these hadith compilations reflects a wider move to codify the religion in writing, which in itself gave the preferred variants cross-regional prestige; on top of this, the main variant names of Maghrib and 'Ishā' were explicitly condemned as improper in several hadith. The example above is considered ṣaḥīḥ, as is what looks rather like a variant of it in Muslim #644a:

وحدثني زهير بن حرب، وابن أبي عمر، قال زهير حدثنا سفيان بن عيينة، عن ابن أبي لبيد، عن أبي سلمة، عن عبد الله بن عمر، قال سمعت رسول الله صلى الله عليه وسلم يقول 
$$^{\prime\prime}$$
 لأ تغلبنكم الأعراب على اسم صلاتكم ألا إنها العشاء وهم يعتمون بالإبل  $^{\prime\prime}$  .

[...] From 'Abd Allāh b. 'Umar, who said: I heard the Messenger of God, blessings and peace be upon him, say: "Let the Bedouin not prevail over you in the name of your prayer, for it is al-' $ish\bar{a}$ '; (they call it 'atama because) they stay late ('tm) with their camels."

But some less well-supported hadith object in much more extreme terms, such as Ibn 'Abī Shayba #36971 (2006:537), narrating from the same source:

... from Maymūn b. Mihrān, who said: I asked 'Abd Allāh b. 'Umar "Who first called it *al-'atama*?" He replied: "The Devil!"

The end result, observable today, is that Muslims' prayer terminology is broadly uniform, in the Maghreb as elsewhere, and the variant oral traditions to which these hadith attest are known only to scholars. However, at the time of these compilations, most of North Africa was outside of Abbasid control, and much of it, particularly the northern Sahara, was non-Sunnī. Mālikī Sunnism, though already present locally, would not begin to attain its current overwhelming preponderance until centuries later. This left ample time for the prayer names based on alternative oral traditions to become fixed in the region's languages, and the evidence below suggests that this is precisely what happened.

#### 3. Variants in the Western Islamic world

# 3.1. Şalāt al-'Ūlā (Đuhr)

The term literally means "the first (f.)", ' $\bar{u}l\bar{a}$  being the feminine form of 'awwal. A rather later authority, the Andalusian scholar al-Qurtubī (d. 1273), offers an explanation for the name in his commentary on Koran 12:109 (2006:411):

"Whoever says ṣalāt al-ʔūlā, its meaning is "the first among the obligatory prayers", called "first" because it was the first prayer to be prayed when prayer was made obligatory, and the first to appear; that is why it is also called al-đuhr."

At an early period, this name must have been rather widespread in the western half of the Islamic world; the only part of North Africa where it is consistently absent is the Mediterranean coast and its mountains. Even within Arabic, some Moroccan varieties still use *luwli* (Harrell & Sobelman 2004:73). As a loan, it survives in scattered points stretching from southern Syria to the Niger bend: Western Neo-Aramaic 'alūla "Mittag" (Arnold 1990:333); in two eastern Berber languages – Sīwa *luli* "Đuhr" (western Egypt), Awjila alūli "Đuhr" (eastern Libya); and in Songhay aluula "Đuhr" (eastern Mali, western Niger). (See Appendix for sources and tables.) The *i* in the Berber forms reflects final imāla, echoed in Arabic dialects of the Egyptian oases (Woidich & Behnstedt 1982:49).

As a calque, it survives in an area even larger and even more distant from the Middle Eastern heartland of early Islam. Within Berber, the commonest form for "Đuhr", excluding loanwords, is one reconstructible as ti-zwar-(nin), a feminine plural derived from the Berber root  $\sqrt{zwr}$  "be first, precede" (Tashelhiyt zwur, Zenaga  $\ddot{a} \not z b \sigma r$ , Tamasheq  $\ddot{a} z z a r$ ). The post-consonantal w regularly corresponds to b in Zenaga, while many varieties replace zw with zz. Such forms are used to mean "Đuhr" across an enormous area including Tashelhiyt and Tamazight in southern Morocco; the Zenati Berber-speaking oases stretching across the northern Algerian Sahara, including the Gūrāra and Mzāb; Northwestern Libya, including the Nafūsa mountains and Zuwāra; Tuareg in the central Sahara; and Zenaga in Mauritania. Wolof (Senegal) and Korandjé (Algeria) have borrowed the Zenaga form: tisbar, tozbar ror respectively.

The relevant Berber root has both the senses of "be first" and "precede", and Naït-Zerrad (1998:63) rendered these forms with the latter sense, as "celles qui précèdent", suggesting tentatively that it was so named because it was followed by additional recitations, as Lanfry noted for Ghadames. However, the Arabic loans exemplified above indicate that the relevant sense is not "precede", but rather "be first".

Soninké, the language of the early Sahelian state of Ghāna, has calqued rather than borrowed the term, whether directly from Arabic or from Berber, yielding *sállì-fànà* "prayer-first". This term has in turn been borrowed into West African languages to its south, such as Mandinka and Pular. In Bambara, it has been reinterpreted as based on *fàná* "meal" (Bailleul 1981), but the order indicates that this is a folk etymology, since the Bambara possessive construction is head-final.

# 3.2. \*Şalāt al-Fiţr (Maghrib)

Unlike the other terms discussed here, this term, literally "prayer of fast-breaking" (*fitr* being a deverbal noun from *faṭar*<sup>a</sup> "break apart; break (fast)"), appears to be non-classical in the appropriate sense; the normal sense of the phrase is "(congregational) prayer on 'Id al-Fiṭr (the fast-breaking festival after Ramadan)". The semantic shift is natural, given that in Ramadan one breaks one's fast each day at the time of Maghrib. No Arabic attestations

of this usage have so far been found. However, their existence is implied by a series of West African terms for Maghrib which appear to be direct loans: Soninké *fùtúrò*, Mandinka *fitíri*, Timbuktu Songhay *fitirow* / *futurow*, etc. The vowels of the Soninké form suggest a possible alternative derivation from another form of the same root, *fuṭūr* "breakfast, fast-breaking meal"; however, the absence of a long vowel and the other West African forms make this less probable.

This form was calqued into Berber at an early period, yielding ti-n- $wu\check{c}\check{c}i$  "that (f.) of eating". It survives mainly in the westernmost Berber varieties – Tashelhiyt, Tamazight in southern Morocco, and Zenaga in Mauritania – but also in Zuwāra in northwestern Libya. It was loaned into Korandjé (Algeria) as tsyunss; the Wolof form timis may also derive from this, assuming assimilation \*nw > m.

This form is not attested in Tuareg, which consistently uses *almoz* "twilight", presumably a not very literal translation of *maghrib* based on a pre-existing time period. The predominant Zenati forms will be discussed below.

# 3.3. Şalāt al-'Ishā' ('Ishā' / Maghrib)

In the sense of 'Ishā', this form is dominant throughout modern Arabic, so its presence as a loan hardly merits comment. However, it is also present in one case as a calque within Berber: Nafusi *ti-n-mansi* "that (f.) of supper". Since the homonymy of reflexes of '*ishā*' ("evening", from the root '*Gashiy* "be night-blind") and '*ashā*' is historically secondary, resulting from the weakening or loss of short vowels, this is probably a late development; comparison to Medieval Eastern Berber, which used *ti-n-iḍas* like most other Saharan Berber varieties (see below), would appear to confirm this.

A potentially more interesting calque based on this word is provided by Awjila mnishiw "p. del tramonto", to be derived by metathesis from \*n-mishiw, cp. n "of", amishiw "cena [supper]". Available data on this form is ambiguous; Mauri (2011, ms) indicates that this refers to 'Ishā', but Paradisi's gloss rather suggests Maghrib. If the latter is correct, this usage would seem to reflect the confusing dialectal practice, mentioned and specifically condemned in Bukhārī, of calling Maghrib al-' $ish\bar{a}$ '.

# 3.4. Şalāt al-'Atama ('Ishā')

Several hadith suggest that, in principle, the difference in name here corresponds with a difference in timing: al-'atama ("first third of the night", from the same root as 'atama "be late, become dark") refers to the late end of the time in which 'Ishā' should be prayed, whereas al-'ishā' refers to the early end. This form is rather less widely attested in North Africa than those seen so far, and no obvious calques are attested, but it occurs as a loan at opposite ends of the region. Alongside luli < al-'ūlā for Đuhr, it is still used in Siwi for 'Ishā': l'atmat. This is likewise the source for Morisco Spanish alatamo. However, reflexes of both al-'ishā' and al-'atama were adopted by the Church for translating canonical hours, confirming that the original semantic distinction between the two times was preserved in at least some registers of Andalusi Arabic: Alcalá (1883:329) renders Complines as al âyxi, and Matins as al âáteme.

While not a calque, the widespread Tuareg name of 'Ishā', azuzəg "milking", may be indirectly associated with this name. Some of the hadith cited as condemning the term 'atama explain its usage as the result of a Bedouin practice of praying it after milking the camels after nightfall, cf. Musnad Aḥmad #4688 (Ibn Ḥanbal 1995:315) (apparently a variant of the hadith from Muslim cited above):

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(حديث مرفوع) حدثنا يحيى ، عن سفيان ، حدثني عبد الله بن أبي لبيد ، عن أبي سلمة ، عن ابن عمر ، عن النبي صلى الله عليه وسلم قال : " لا يغلبنكم الأعراب على اسم صلاتكم ، فإنها العشاء ، إنما يدعونها العتمة ، لإعتامهم بالإبل لحلابها " .
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[...] From Ibn 'Umar, from the Prophet, blessings and peace be upon him, who said: "Let the Bedouins not prevail over you in the name of your prayer, for it is al-'ish $\bar{a}$ '; they (the Bedouins) call it al-'atama because they keep the camels out late to milk them."

# 3.5. Şalāt al-Nawm ('Ishā')

This form, literally "prayer of sleep", is very marginal in the hadith literature, but its rarity in Arabic contrasts with the overwhelming frequency in Berber of its calque, *ti-n-idos* "that (f.) of sleep". This form is used in Tashelhiyt and Tamazight in southern Morocco; the Zenati Berber-speaking oases stretching across the northern Algerian Sahara, including the Gūrāra and Mzāb; Western Libya, including Zuwāra, Ghadames, and Al-Fuqahā'; and Zenaga in Mauritania. It has been borrowed into Korandjé (Algeria), as *tsyadas*.

The same calque was made in Soninké, whether directly from Arabic or from Berber:  $s\acute{a}kh\acute{u}$ - $f\acute{o}$  ("sleep-thing"). From Soninké this form was borrowed, with regular loss of kh and compensatory vowel lengthening, into many other West African languages: Mandinka  $s\acute{a}afu$ , Songhay saafoo, Pular saf'i, etc. The Songhay form is explained by Prost (1977:637), following a suggestion by Marty (1920:228) for Peul, as deriving from Arabic shafaq "twilight", but if that were the case we would expect a short vowel: \*safoo rather than saafoo. Nor would this explain the vowels and the position of the kh in the Soninké form. To make matters worse, 'Ishā' cannot be prayed until after shafaq has passed (Monnot 1995:960); shafaq is in fact the time of the Maghrib prayer. The Peul form cited by Marty, safako, clearly is based on shafaq, but given its meaning, it is better viewed as the result of a folk-etymological reinterpretation (among Arabic-literate scholars) of a term originally based on  $s\acute{a}kh\acute{u}$ - $f\acute{o}$ . Marty (1920:70) links the Songhay form itself to shaf', the name of the optional prayer immediately following 'Ishā'; this fits the Pular form, but otherwise again fails to account for the long aa and the other regional forms.

#### 3.6. Şalāt al-Ghadāt (Şubḥ)

This form has already been exemplified above. Medieval eastern Berber used what I take to be a calque of *ghadāt* (properly "early morning"), folk-etymologised as based on *ghad* "tomorrow": *ti-n-uzəčča* "that (f.) of tomorrow". This term, however, has not survived into any reported modern variety. Some of the Tuareg forms are ambiguous between *şubḥ* and *ghadāt*: *tufat* means both "morning" and "tomorrow", like Spanish *mañana*. Other Berber

terms for the morning prayer show far more variation than the other four prayers; where they are not Arabic loans, they may be calques of *ṣubḥ* "(early) morning" (Tamasheq, Zenaga, Sīwa), or just terms meaning "early" (Zuwāra, Nafūsa).

# 3.7. Şalāt al-Ghabasha (Şubh)

Within North Africa, borrowed reflexes of this form are reported only in the Berber languages of the Mzāb and Ouargla, two of the last strongholds of Ibāḍism, and Awjila (Paradisi glosses it only as "morning", but Mauri (2011, ms) confirms the prayer time sense). No early authority for this form as a prayer name has yet been found, but it is in current use in colloquial Arabic in the other main region where Ibāḍism has been maintained, eastern Arabia. Examples from Oman in a highly colloquial register can readily be found online, eg:

Coming in force but now the adān is with us.. the Ghubsha, I mean Fajr, prayer.<sup>3</sup>

Suḥūr like what!! Half the people after Ghubsha prayer, [...]<sup>4</sup>

While the name itself seems absent from the hadith literature, its motivation can readily be found there; cf. Mālik #1.9 (1985:8):

[...] he asked Abū Hurayra about the time of prayer. Abū Hurayra replied: "I will tell you. Pray Đuhr when your shadow is your size, and 'Aṣr when it is twice your size, and Maghrib when the sun sets, and 'Ishā' within the (first) third of the night, and pray Ṣubḥ in *ghabash*, meaning *ghalas* (just before daybreak)."

#### 4. Berber-internal innovations

#### 4.1. Prayer names based on calling

In several varieties spoken in or around southwestern Libya, Đuhr is called *iməghri*, a verbal noun from *ghər* "to call". The same term is found in a Tuareg variety further from Libya, Tamasheq, but with reference to Subh. A probably independent development of the

<sup>3</sup> http://www.s-oman.net/avb/showthread.php?t=570770&page=7

 $<sup>4 \</sup>quad http://www.omanlover.org/vb/showthread.php?t=169981\&page=7$ 

same kind is Ayt Hdiddou *tighuriwin*, a feminine plural based on the same root, for Maghrib.

#### 4.2. Prayer names based on numerals

While most Berber languages have borrowed most of their numerals from Arabic, several preserve the original system, as exemplified by the following table:

Table 2: Some numerals in Berber

		four	five	six
Zenaga	(Taine-Cheikh 2008)	akkuź	shämmush	shuḍish
Tashelḥiyt	(Destaing 1920)	kkuz	smmus	sḍiṣ
Tamasheq	(Heath 2005)	ăkkoz	sămmos	səḍis

As noted by van den Boogert and Kossmann (1997), these seem to provide the sources for some Berber prayer names. Throughout a wide area roughly coinciding with the distribution of *ti-zwar(-nin)* above – including Tashelhiyt and Tamazight in southern Morocco; the Zenati Berber-speaking oases stretching across the northern Algerian Sahara, including the Gūrāra and Mzāb; Northwestern Libya, including the Nafūsa mountains and Zuwāra; Tuareg in the central Sahara; and Zenaga in Mauritania – 'aṣr is referred to as *t-akkwz-in*, a feminine plural based on *kkuz* "four". Beyond Berber, this form has been borrowed from Zenaga into Wolof, as *tàkkusaan*, and Korandjé, as *tsakwzzon*.

In a rather smaller area, including most of the Zenati Berber-speaking oases of the northern Algerian Sahara, along with Nafūsa and Al-Fuqahā' in western Libya, the *maghrib* prayer is referred to as *ti-səmms-in*, a feminine plural based on *səmmus* "five". The term is also attested with a vaguer meaning "afternoon" in Tamezret (southern Tunisia).

In many Tuareg varieties, the 'ishā' prayer is ti-suḍs-en, an etymologically ambiguous feminine plural. Naït-Zerrad (1998) derives it from the causative verb suḍəs "to make sleep" (Foucauld 1951), thus fitting it with the tin-iḍəs forms seen above. However, van den Boogert and Kossmann (1997) note that a derivation from səḍis "six" cannot be excluded. In light of the other two numerical forms, this derivation seems plausible.

Naït-Zerrad (1998:63) explained the forms for 'Aṣr and Maghrib on the basis that the (24-hour) day starts after sunset, making Maghrib the 5<sup>th</sup> and last prayer within it. This view is reasonable in itself; such a definition of the day was commonplace in the Islamic world, and is supported by the Morisco Spanish form *alajere* "Maghrib" < *al-'ākhira* (cp. Alcalá's (1883:329) *al aķiri*, given as "Nones" but probably transposed from "Vespers"). However, this does not sit well with the fact that, in all the languages which use these numerical forms, Đuhr is consistently named as "the first". If Maghrib is the fifth prayer, then Đuhr should be third; or, conversely, if speakers who view Đuhr as "first" are naming prayers ordinally, we expect 'Aṣr to be "second", and Maghrib "third". Moreover, we would have to dismiss the otherwise promising similarity between the Tuareg terms for 'Ishā' and "six" as a coincidence: there is no sixth obligatory prayer! Nor are there three prayers between

Đuhr and 'Aṣr. For an explanation to fit the numerical forms for Đuhr, 'Aṣr, and Maghrib all at once, let alone 'Ishā', we must abandon the idea of ordinally named prayers.

Happily, an alternative solution is available. Let us take the numerals to represent, not an ordering of prayers, but rather the times of the prayers, as measured by some numerical time-keeping system. The average time between Đuhr and Maghrib is 6 hours; in fact, if we use seasonal rather than equinoctial hours, as medieval sources commonly do, the time between them is always six seasonal hours by definition. Thus, if the interval between Đuhr and Maghrib is (5-1)=4 units, the unit in question must equal (6/4) hours, ie 1 hour 30 minutes. The day would be made up of 8 such units, and the night of another 8 such units.

Such a unit is not a mere artefact of imaginative reconstruction; it is well-attested in Saharan Berber culture. In the desert, irrigation water is frequently too scarce to allow everyone unlimited use, and measurement by volume is rarely practical. Most Saharan oases instead handle water rights through time measurement: for any particular spring or canal, each owner has the right to irrigate from it for a specific time-span each day, determined contractually. In order to measure this time-span, they divide the day into a fixed number of units, just as modern society does. In Ouargla, Ghadames, and Sīwa, the day was divided into 8 units of 1 hour 30 minutes each, called *ttmən* at Sīwa and Ouargla (< Arabic *tumn* "one-eighth"; Souag (2013:119) for Sīwa, Delheure (1988:196) for Ouargla), and *anattam* at Ghadames (< Berber, cp. *tam* "eight"; Lanfry (1973:273)).

This would yield, on average, the following times for prayers:

1 <sup>st</sup> anattam	Đuhr	12:00 (normalised; add or subtract depending on time zone)
2 <sup>nd</sup> anattam	_	13:30
3 <sup>rd</sup> anattam	_	15:00
4 <sup>th</sup> anattam	'Așr	16:30
5 <sup>th</sup> anattam	Maghrib	18:00
6 <sup>th</sup> anattam	'Ishā'	19:30

The time given here for 'Aṣr will strike most modern North Africans as a little too late. Contrast the actual spring equinox times for Ghadames as calculated by IslamicFinder.org<sup>5</sup>, subtracting 30 minutes to normalise for the time zone:

Đuhr	12:00
'Așr	15:27
Maghrib	18:05
'Ishā'	19:22

5

http://www.islamicfinder.org/prayerPrintable.php?city2=Ghadames&state=&id=11837&longi=9.5000&lat i=30.1333&country2=Libya&zipcode=&today\_date\_flag=2013-3-

 $<sup>23\&</sup>amp; change Time=16\& pmethod=2\& Hanfi Shafi=1\& Dhuhr Interval=1\& Maghrib Interval=1\& day Light=0\& day Light=0\& day Light=2\& day Light_self_change=\& prayer Customize=1\& lang=\& fajr Twilight=0\& isha Twilight=0\& isha Twilight=0\& isha Twilight=0\& day Light_self_change=2\& prayer Customize=1\& lang=\& fajr Twilight=0\& isha Twilight=0\&$ 

According to this calculation, Maghrib and 'Ishā' are correct to within less than 10 minutes. However, 'Aṣr comes out off by an hour. This, however, can easily be remedied. 'Aṣr has not one recognised time, but two: while most schools prefer to pray it when the shadow of an object is longer than at noon by the same length as its height, the Ḥanafī school instead prays it when it is longer by twice its height, and both alternatives are supported by hadith (King 1990). If we change the calculation method to Ḥanafī on the same site, and again subtract 30 minutes, then we get the following:

Đuhr	12:00
'Așr	16:22
Maghrib	18:05
'Ishā'	19:22

On the simple assumption that the twice-height method was followed, the anomaly thus disappears, and the implied timing is almost exactly correct.

Archeological investigations of Garamantian settlements have made it clear that irrigation-based oasis agriculture was already practiced by the Berbers of central Libya centuries before Islam (Wilson 2005). Such irrigation is hardly practicable without some means of dividing up time in order to divide water appropriately. It is therefore probable that, at the arrival of Islam, the settled Berbers of the Sahara and its fringes already had a time-telling system corresponding to the *anattam* of Ghadames and the *ttmən* of Sīwa and Ouargla. They adopted noon as "the first" based on the prayer's alternative Arabic name, and named the following prayers based on the number of *anattams* elapsed counting from noon.

#### 5. Conclusion

Saharan and Moroccan Berber, Soninké, and Songhay have all preserved, and transmitted to their neighbours, traces of Islamic religious terminology found in the hadith literature but largely obliterated elsewhere by pressures towards standardisation which can already be seen in that very literature. Indeed, Siwi Berber preserves the variant system labelled "Basran" above almost in its entirety. The terminology *al-'ūlā* for Ḥuhr and *al-nawm / al-'atama* for 'Ishā' must have been dominant among the Muslims that reached the region in the Umayyad period. These variants' distribution correlates well with the fact that, at the time when what would come to be accepted as the key hadith collections and Sunni madhhabs were emerging, the trans-Saharan trade was largely in the hands of Muslims who did not accept the political authority of the Abbasid empire or the religious authority of its scholars. In addition to calquing Arabic terminology, Berber also coined new terms based on pre-existing Berber time-keeping systems, whose relative antiquity this fact confirms.

# 6. Data: Names of prayer times in languages of the Western Islamic world

Tables 3 and 4 summarize the data used in this paper. A few Berber languages also have attested native terms for *tarawīḥ*, the long supererogatory prayers of Ramadan: Ouargla *tizgrarin*, Zenaga *təžəgrärən*. The etymology is transparent in both cases, being the feminine plural of the Berber adjective "long" in Ouargla (though Zenaga uses a different root for the adjective).

Table 3: Variant prayer names in Berber.

		Şubḥ	Đuhr	'Așr	Maghrib	'Ishā'
Zenaga	(Taine-Cheikh 2008)	t(ä)näzzäT	tə <u>ž</u> ba <u>r</u> ən	takkū́zən	tnut <sup>y</sup> sha?n	təN <sup>y</sup> uḍashshən
Moroccan Atlas:						
Old Tashelhiyt	(Ibn Tūnirt, via Boogert & Kossmann 1997)		tizwarn	takkzin	tiwwutshi	tiyyiṭs
Tashelḥiyt	(Destaing 1920)	(ṣṣbaḥ)	tizwarən	tak <sup>w</sup> zin	tiwutsh	tiyiḍəs
Ait Hdiddou Tamazight	(Azdoud 2011)	(ləfžər) (ṣṣubḥ)	tizwarrin, (ḍḍuhṛ)	(l'aṣṛ)	tighuṛiwin, (lməghṛəb)	tin yiṭṭs, (lʻisha)
Ait Atta Tamazight	(Amaniss 1980)		tizwarnin		tin-wittshi	tin-yiṭs
Ait Khebbach Tamazight	(author's field data)	(şbaḥ)	tizwarnin, tuzwarin	(l'aṣəṛ)	tinwuččin, tawučči	tinyaṭs
Tuareg:						
Tamasheq	(Heath 2006)	tífawt, emăghắrr	tézzar	tákkəşt	álməz	tisódsen
Ahaggar Tamahaq	(Foucauld 1951:1157)	tufat	tezzar, eməghri	takkəs <u>t</u>	alməz	azuzəģ, tisuṭsin
Ghāṭ Tamahaq	(Nehlil 1909:193)	tufat	iməghri	takəst	alməz	tadəğğat
Taitoq Tamajeq	(Masqueray 1893:266)	tufat	tizzar	takkost	aləmoz	azozeğ

		Şubḥ	Đuhr	'Așr	Maghrib	'Ishā'
Zenati:						
Figuig	(Sahli 2008, Kossmann p.c.)	ləfžər	tizzarnin	l'aṣər	lməghrəb	tinyiṭ
Igli	http://www.igli08.com/vb/sh owthread.php?t=941		tizarnin	(l'aṣr)	tisəmsin	tinițs
Timimoun	(Boudot-Lamotte 1964)		tizza ʻnin	takzin	tisəmsin	tinnist
Ouargla	(Delheure 1987)	(ghabəshsha)	tazzarnin	takkwzin	tisəmməsin	tinniḍəs
Mẓāb	(Brahim Abdessalam & Bekir Abdessalam 1996:47)	(ghbəshsha)	tizzarnin	takwzin	tisəmsin	tinniḍəs
"Eastern":						
Tamezret	(Ben Mamou 2005)				tisəmsin "après-midi"	
Zuwāra	(Mitchell 2009:327–327)	talži	tizzarnin	tuqzin	timutshu	tiniḍəs
Nafūsa	(Calassanti-Motylinski 1898:36)	afəllaḥ n taji	tizarnin	tuqzin	tisəmsin	tinmənsi
Old Eastern Berber	(Calassanti-Motylinski 1898:36)	tinuzəčča	tizarnin	tuqzin	tinučču	tiniḍas
Sawkna	(Sarnelli 1924:21)		iməghri			
Al-Fuqahā'	(Paradisi 1963:118)	(əlfə́žər)	mghári	(əl'áṣar)	tsəmsín	tniaţə́st
Ghadames	(Lanfry 1973:194)	(əṣṣāla) / məddēn	ama ʻri	(ăl'aṣər)	аβәппәβәп	tənēḍəs
Awjila	(Paradisi 1960; Paradisi 1961)	(əlghábəsh "mattino presto")	(alúli)	(l'áṣar)	mnishíw	
Sīwa	(author's field data)	tənnaddan / sra	(luli)	(la'ṣaṛ)	(mməghrəb)	(l'ətmət)

Table 4: Variant prayer names in non-Berber languages.

		Şubḥ	Đuhr	'Aṣr	Maghrib	'Ishā'
Morisco Spanish (16 <sup>th</sup> cent.)	(Dadson 2012; Gredilla 1874)	(alcobh, cofe)	(doar, dohar)	(hazar, alaçare)	(elegin, alajere)	(hatamay, alatamo)
Wolof	(Diouf 2003)	njël, (fajar)	tisbar	tàkkusaan	timis	geewe
Korandjé	(author's field data)	(l)məndər	təzbərrən	tsak <sup>w</sup> zzən	tsyunəs	tsyądąs
Gao Songhay	(Heath 1998)	(subbaahi)	(aluula)	(alaasar)	(almaari)	assaafoo
Timbuktu Songhay	(Heath 1998)	(alfajar)	(aluula)	(alaasara)	(fitirow, futurow, fitrow)	assaafoo, saafoo
Soninké	(Diagana 2011)	(fájìrí)	sállì-fànà ("prayer-first")	(làxáasàrá)	(fùtúrò)	sákhú-fó ("sleep-thing")
Bozo of Mopti	(Daget, Konipo & Sanankoua 1953)	(alfadyiri, fadyiri)	salifana			saà pó ("sleep thing")
Mandinka	(Creissels 2011)	(súbaa)	sálífanaa	(alánsara)	(fitíri)	sáafu
Bambara	(Bailleul 1981)		selifàna	(làansàra)	(fitiri)	saafo
Futa Jalon Pular	(Bah 2012)	subaka	fanaa	alansaraa	futuroo	saf'i, geeye
Macina Peul	(Marty 1920:228)	fadyiri	sallifana	lassara	fitiri	safako, guédié

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