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Research Article

# **Counting Souls: Towards an historical demography of Africa**

### Sarah Walters

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# Counting Souls: Towards an historical demography of Africa

### Sarah Walters<sup>1</sup>

## Abstract

#### BACKGROUND

Little is known about even the relatively recent demographic history of Africa, because of the lack of data. Elsewhere, historical demographic trends have been reconstructed by applying family reconstitution to church records. Such data also exist throughout Africa from the late 19th century. For the Counting Souls Project, nearly one million records from the oldest Catholic parishes in East and Central Africa have been digitised. These data are currently being processed into a relational database. The aim of this paper is to describe their potential for demographic reconstruction in the region, and to outline how their provenance defines the analytical approach.

#### RESULTS

Empirically, religion is correlated with population patterns in contemporary Africa, and, historically, reproduction and family formation were central to Christian mission in the region. Measuring change using sources created by agents of change raises questions of epistemology, causation, and selection bias. This paper describes how these concerns are balanced by missionary determination to follow the intimate lives of their parishioners, to monitor their 'souls', and to measure their morality, fidelity, and faith. This intimate recording means that the African parish registers, together with related sources such as missionary diaries and letters and oral histories, describe qualitatively and quantitatively what happens to individual agency (reproductive decision-making) when the moral hegemony shifts (via evangelisation and colonisation), and how the two interact in a reciprocal process of change.

#### CONCLUSION

Reconstructing long-term demographic trends using parish registers in Africa is therefore more than simply generating rates and testing their reliability. It is a bigger description of how 'decision rules' are structured and re-structured, unpicking the cognitive seam between individual and culture by exploring dynamic micro-interactions between reproduction, honour, hope, and modernity over the long term. With such a

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mixed-methods approach, parish registers offer real potential for historical demography in Africa.

#### **1. Introduction**

The aim of the Counting Souls Project is to collect the parish registers of the earliest churches in East and Central Africa, and to reconstruct micro-demographic histories of those parishes from the late 19th century to the present using family reconstitution and event history analysis. This will improve understanding of contemporary African population growth and permit a longitudinal approach to African fertility transition, filling the pre-1960 data gap.<sup>2</sup> The objective of this paper is to describe these data sources, to consider how their provenance could affect measurable outcomes, and to propose an analytic strategy.

During the 20th century, Christianity grew from nascency in Africa into one of the most powerful cultural forces on the continent (Hastings 1979, 1996, Sundkler and Steed 2000). That expansion had wide-ranging implications for reproduction and health through the establishment of Christian health and education services (Vaughan 1991, Iliffe 1995) and through the Church's intervention in African sexual and domestic life (Hunt 1999, Thomas 2003, Smythe 2006). The people who appear in parish registers do so for dynamic rather than normative reasons, and that dynamism has implications for who and what can be measured over time. Furthermore, there is a tension between the priests' need to keep track of Christians (to count 'souls') and the demographers' need to count people. Interrogating these motivations is fundamental to understanding the strengths and weaknesses of the data.

The paper is organised around five questions about provenance: what are these sources and what events are recorded? Why were they produced, and why did people comply (or not)? Where are they found? When were they produced? Who produced them, who is in them, and who is excluded? Addressing these historiographical questions reveals the complexity and richness of these documents for reconstructing

<sup>&</sup>lt;sup>2</sup> The first censuses with detailed age-specific data on fertility and mortality were not conducted until the post-colonial era across most of sub-Saharan Africa (Brass et al. 1968). Vital registration systems were rare and incomplete (Kuczynski 1949). Some detailed demographic surveys and enquiries were conducted but these were exceptional (Clark and Colson 1995). Some previous studies have used parish registers for demographic and epidemiological reconstruction, particularly in South Africa and Namibia, but there has been no comprehensive attempt to survey the available data (Nhonoli 1954, Thornton 1977, Feltz 1990, Katzenellenbogen, Yach, and Dorrington 1993, Colwell 2000, Notkola and Siiskonen 2000, Notkola, Timæus, and Siiskonen 2000, Shemeikka, Notkola, and Siiskonen 2005, Doyle 2012).

Africa's demographic past, raising wider questions about selection and sub-populations and the interaction between evidence and action in demographic research. A critical, mixed-methods and interdisciplinary approach to these sources is necessary in order to understand their silences, as well as to exploit their strengths.

#### 2. Fieldwork

Thirty-seven parish archives of different denominations in Malawi, Tanzania, Uganda, and Zambia were investigated. The oldest and most significant parishes in the region were selected through literature review: missionaries, priests, and archivists were consulted to determine which parishes would most likely have surviving and accessible data. Permissions were obtained from the relevant bishop and the missionary society, as well as ethical approval from the London School of Hygiene and Tropical Medicine [reference: 8326]. With the exception of Bugando (Tanzania), all parishes were in rural and occasionally remote locations, necessitating extended residence in the parish while digitising data and reliance on the parish for transport and logistics. The parishes were remunerated for costs and all received a digital copy of their archive. Over 200,000 photographs were taken.<sup>3</sup>

The data were collected in two waves. In 2006, registers from the six oldest Catholic parishes in northwestern Tanzania (Bukumbi, Kagunguli, Bugando, Kome Island, Kagunguli, Sumve) were photographed, as well as from the daughter parishes of Kagunguli (Murutunguru, Nansio, Itira).<sup>4</sup> Data for Kome Island and Kagunguli were available until 1984 and 1989 respectively; for the other parishes data were available until the early 2000s.<sup>5</sup> The data for all but Sumve, Murutunguru, Nansio, and Itira were transcribed and a family reconstitution study conducted, resulting in the Mwanza Historical Demographic Database (MHDD).<sup>6</sup> The MHDD contains linked life histories

<sup>&</sup>lt;sup>3</sup> A Fujifilm X10 camera and tripod were used to photograph the registers as raw files, following digitisation guidelines from the Endangered Archives Programme at the British Library to enable future archiving and storage: http://eap.bl.uk/downloads/guidelines\_copying.pdf (last accessed 14 March 2014).

<sup>&</sup>lt;sup>4</sup> These daughter parishes were collected to enable eventual digitisation of the whole island of Ukerewe.

<sup>&</sup>lt;sup>5</sup> Data for most parishes were collected in situ, but for Kome Island the records in the Mwanza diocesan archives were used. These records ended in 1984 because Kome came under the administration of Geita when that diocese was formed in 1985. More up-to-date records almost certainly exist in the parish, and may be collected in future. Likewise, it may be possible to update the data from Kagunguli and its daughter parishes.

<sup>&</sup>lt;sup>6</sup> A significant problem for historical demographers using parish registers in Africa is loss to follow up due to the fragmentation of large parishes. The eventual digitisation of the three daughter parishes on Ukerewe Island will circumvent that problem for Kagunguli parish; however, they were considered lower priority for digitisation than the mother parish. Sumve parish has not yet been digitised due to some gaps in the records,

of c.80,000 people during 1883–2005, and trends in fertility, mortality, and marriage age have been described (Walters 2008).

In 2012–2013, the registers of the oldest Catholic parishes in Malawi (Mua), Uganda (Villa Maria and Bikira), and Zambia (Chilubula and Chilonga) were photographed and transcribed, and the Bukumbi (Tanzania) records were updated.<sup>7</sup> Mua, Villa Maria, and Chilubula were the main centres of Catholic education and ministry in Malawi, Uganda, and Zambia respectively during the colonial period (Linden and Linden 1974, Waliggo 1976, Garvey 1994, Nolan 2012).<sup>8</sup>

Missionaries had previously extracted incomplete baptism data from 19 other Catholic parishes in Zambia, and the Bishop of Kasama made the data available to the Counting Souls Project. Full dates were not included (only year of baptism), and pre-1950s data were excluded for some parishes. Little demographic analysis can be done with these records given the missing birthdates,<sup>9</sup> but the >300,000 lines of digitised nominal data form the basis of future digitisation project.<sup>10</sup>

The archives of some of the oldest non-Catholic parishes in Malawi were also explored. The registers of Anglican St Peter's (Likoma Island) were photographed, together with its daughter parishes (St Michael's and St Mark's). An informal inventory was made of available data at the famous Presbyterian Livingstonia Mission in Northern Malawi. Disappointing findings in these Anglican and Presbyterian archives (see Appendix) led to a focus on Catholic records for the Counting Souls Project.

but this parish is of interest due to the history of medical work at Sumve. It is planned that these data will all be digitised eventually.

<sup>&</sup>lt;sup>7</sup> These are the earliest continuously established parishes. Earlier missions were established from 1889 in Malawi (Mponda Mission) and in Zambia (Mambwe Mission), but these were periodically abandoned (Linden and Linden 1974, Garvey 1994, Hinfelaar 2004).

<sup>&</sup>lt;sup>8</sup> The registers of a fourteenth Catholic parish, St Anne's in Karonga (Northern Malawi), were partially digitised. The parish was founded in the 1950s, and hence was considered too young to include in the project, but its boundaries are contiguous with the demographic surveillance site (DSS) of the Karonga Prevention Study (now Malawi Epidemiology and Intervention Research Unit (MEIRU) (Crampin et al. 2012). It is the subject of a pilot study to link the parish data to the DSS to validate the parish data (forthcoming).

<sup>&</sup>lt;sup>9</sup> In English historical demography, date of baptism was used as a proxy for date of birth (Wrigley 1977), but this would not be successful in a missionary context, given the prevalence of adult baptism.

<sup>&</sup>lt;sup>10</sup> The information on godparents and residence will also be used in a study of social networks and fertility.



#### Figure 1: Map of principal parishes included in the Mwanza Historical Demographic Database and/or the Counting Souls Database

# 3. The database

The Mwanza Historical Demographic Database, containing family reconstitution data for four of the Tanzanian parishes, has been described by Walters (2008). Work is currently underway to complete the wider Counting Souls Database, which will additionally contain updated data from Bukumbi (Tanzania) and data from Mua (Malawi), Villa Maria and Bikira (Uganda), and Chilonga and Chilubula (Zambia) parishes. Data have been rendered into machine-readable format. They are currently being cleaned, de-duplicated, and linked using family reconstitution methods adapted for the missionary and African context (Walters 2008). The Double Metaphone Search Algorithm has been adjusted for nominal data linkage with common Bantu linguistic practices and work is underway to develop an algorithm for the entire data cleaning and record-linkage process.<sup>11</sup> In future, it is planned that the data extracted by missionaries in Zambia (recorded as "partially digitised" in Table 1) will be completed through reference to the original registers and that these will be added to the Counting Souls Database, together with the remaining data which have been photographed in Tanzania ("photographed" in Table 1). Flat copies of the digitised data are made available to the parishes once complete and the database is otherwise stored securely at the London School of Hygiene and Tropical Medicine, where it is administered by the author.

# 4. The White Fathers

All of the parishes included in the Counting Souls Project and the MHDD were established by a single Catholic missionary society, the White Fathers, which was founded in 1868 by Cardinal Lavigerie, the then Bishop of Algiers (Ceillier 2008).<sup>12</sup> The Society has been described as "a missionary force of unsurpassed vigour and consistency in the interior of Africa" (Shorter 2006: 1) and as "Africa's most dynamic missionary society" (Iliffe n.d.). That dynamism and consistency arose in part from the strict founding rules of the society, which emphasised adaptability, language learning, communal living, and record keeping (Renault 1992).<sup>13</sup>

<sup>&</sup>lt;sup>11</sup> Thanks to Gill Newton at the Cambridge Group for the History of Population and Social Structure for helping to adapt the Double Metaphone Search Algorithm (Newton 2005). The original algorithm is described in Philips (2000).

<sup>&</sup>lt;sup>12</sup> The White Fathers are now officially called the Missionaries of Africa, but they are still known popularly by their former name, which refers to the Arab-style white robes they wore due to their origins in Algiers.

<sup>&</sup>lt;sup>13</sup> Lavigerie's *Instructions aux Missionaries* were carried by the early missionary caravans which followed the routes of slavers and Swahili traders into the East African interior in the 1870s–1880s.

					1			Z	Numbers of index events	ndex event				
Country Parish	Parish	Denomina- tion <sup>1</sup>	Digitisation <sup>2</sup>	Found- ed <sup>3</sup>	Start date <sup>4</sup>	End date	Gaps <sup>5</sup>	Baptism	(actual/estimated Marriage Buria	imated") <b>Burial</b>	Families	MHDD	Project" CSP	ЧI
Malawi	Mua	Catholic	Digitised	1902	1903	2007	•	36,173	5,703	13,408	24,315		79,599	79,599
	Livingstonia <sup>9</sup>	Presbyterian	Assessed	1894			‡ ‡							
	St Anne's <sup>10</sup>	Catholic	Partially digitised	c.1950			,							
	St Peter's <sup>11</sup>	Anglican	Photographed	1885	1895	2013	‡							
	St Michael's	Anglican	Photographed	1904	1966	2013	‡							
	St Mark's	Anglican	Photographed	1912	1973	2013	ŧ							
Tanzania	Tanzania Bukumbi <sup>12</sup>	Catholic	Reconstituted	1883	1896	2012		27,787	2,617	2,454		25,070	32,858	32,858
	Bugando	Catholic	Reconstituted	1907	1907	2004		11,466	1,897	3,131		16,494	16,494	16,494
	Kome Island	Catholic	Reconstituted	1900	1900	1984	•	24,635	1,490	2,087		28,212	28,212	28,212
	Kagunguli	Catholic	Reconstituted	1894	1896	1989	•	9,673	2,919	3,647		16,239	16,239	16,239
	Itira	Catholic	Photographed	1957	1957	2005	,							
	Murutunguru	Catholic	Photographed	1909	1909	2005	,							
	Nansio	Catholic	Photographed	1947	1947	2005	,							
	Sumve	Catholic	Photographed	1911	1911	2005	+							
Uganda	Bikira	Catholic	Digitised	1892	1892	2012	+	101,360	12,553				113,913	113,913
	Villa Maria	Catholic	Digitised	1892	1892	2012	+	107,981	13,945				121,926	121,926
Zambia <sup>15</sup>	Zambia <sup>13</sup> Chilonga	Catholic	Digitised	1899	1900	2012	•	42,491	4,420	12,829	8,106		67,846	67,846
	Chilubi	Catholic	Partially digitised	n/a	1939	2004	,	29,243						29,243
	Chilubula	Catholic	Digitised	1899	1900	2012	•	52,350	8,558	10,764	10,924		82,596	82,596
	Ipusikilo	Catholic	Partially digitised	n/a	1940	2002	,	15,388						15,388
	Kapatu	Catholic	Partially digitised	n/a	1939	2002	'	27,812						27,812
	Kaputa	Catholic	Partially digitised	n/a	1981	2004	'	5,746						5,746
	Kasama	Catholic	Partially digitised	n/a	1951	2006	,	46,878						46,878
	Kayambi	Catholic	Partially digitised	n/a	1939	2003	,	25,836						25,836
	Lubushi	Catholic	Partially digitised	n/a	1939	2003	,	21,926						21,926
	Luwingu	Catholic	Partially digitised	n/a	1957	2004	'	22,045						22,045
	Lwena	Catholic	Partially digitised	n/a	1939	2002	'	32,732						32,732
	Malole	Catholic	Partially digitised	n/a	1952	2001	,	30,689						30,689
	Mambwe	Catholic	Partially digitised	n/a	c.1950	1998	,	24,051						24,051
	Matipa	Catholic	Partially digitised	n/a	1996	2002	,	4 464						4 464

# Table 1:Parishes investigated, state of digitisation, dates data available and<br/>numbers of events

Country Parish tion <sup>1</sup> Mporokoso Catholic Mulobola Catholic Mungwi Catholic Nseluka Catholic			Found-	Start	End			(actual/estimated <sup>7</sup>	(actual/estimated <sup>7</sup> )	2	-	Proiect <sup>®</sup>	
so a		Digitisation <sup>2</sup>	ed <sup>3</sup>	date <sup>4</sup>	date	$\operatorname{Gaps}^{5}$	Baptism		Burial	Families	MHDD	CSP	IIV
		Partially digitised	n/a	1939	2002	,	13,047						13,047
	Catholic Partia	Partially digitised	n/a	c.1950	2002	,	15,792						15,792
-	Catholic Partia	Partially digitised	n/a	1966	2003	,	10,236						10,236
	Catholic Partia	Partially digitised	n/a	2001	2004	,	1,190						1,190
Nsombo Catho	Catholic Partia	Partially digitised	n/a	1961	2003	,	15,707						15,707
Rosa Catho	Catholic Partia	Partially digitised	n/a	1937	2006		24,677						24,677
Total index events in Mwanza Historical Demographic Database	ıza Historici	d Demographi	c Database	63			66,506	8,400	11,109		86,015		
Total index events in Counting Souls Project	ting Souls P1	oject					413,916	54,102	48,320	43,345		559,683	
Total index events							782,752	54,102	48,320	43,345			928,519
3. The dates referred to as the founding date in parish histories.	ed to as the 1	ounding date i	in parish hi	stories.	a abata ana	inda boda	فسمغه مطفا ملم	dote more di	from from a	the formula of	data)		
3. The dates referre	ed to as the	ounding date i	in parish hi	stories.	-	-				-			
4. Start and end actes relate to the period covered by the aquitable discords the start date may duffer from the founding date).	utes reter to t nissing data	he period cove is indicated by	red by the	digitised o	r photogra severe (han	phed reco. dly any de	rds (the start	date may di	Ther from to the total of the second s	the founding	date). its of data m	iscina) ++	1
bad (some data available but reconstitution would be impossible). + = mangeable (data are missing or confused for a few years but reconstitution is possible).	ulable but re	constitution w	ould be im	possible),	+ = manage	eable (dat	a are missing	g or confuse	d for a few	v years but re	constitution	is possible)	
complete (data are not missing).	not missing				)								
6. Index events refer to the main event recorded in the register (e.g., baptism in the baptism register). Other events appear in each register (e.g., confirmation and	er to the ma	in event record	led in the r	egister (e.g	., baptism	in the bap	tism register	.). Other eve	nts appear	in each regi	ster (e.g., col	nfirmation a	pu
marriage in the baptism register) as shown in Table 2. These 'follow-up' events are not recorded in this table.	ptism registe	r) as shown in	Table 2. T	hese 'follo	w-up' ever	nts are not	recorded in	this table.			/		
7. Bick numbers are actual, cryb numbers are estimated by manually counting events in the pholographoral rules (numbers subject to change). 8. The Museurs Historical Democraphic Database (MHDD) contains data from Burardot Bultunki (nu to 2005) Kannundi and Kome Italbade in Taravaia. The	are actual. U storical Den	rey numbers a. Morranhic Data	re estimate ibase (MHI	od by manu DD) contai	ally counti ins data fro	ing events im Buganc	in the photo lo Bukumbi	graphed file	s (number. 5) Kaging	s subject to c	nange). e Island in T	anzania Th	9
current Counting Souls Project (CSP) also contains data from Bukumbi (to 2012), as vell as Mata (Malawi), Bikra and Villa Maria (Uganda) and Chilong	Souls Proje	ct (CSP) also c	contains da	ta from Bu	kumbi (up	to 2012),	as well as N	fua (Malawi	i), Bikira a	nd Villa Mai	ia (Uganda)	and Chilon	ga
and Chilubula (Zambia). Other data will be supplemented and included in future projects.	mbia). Other	data will be su	upplements	ed and incl	uded in fut	ure projec	ts.						
9. Start and end dates are not available because no series of baptism registers was found.	tes are not a	vailable becau	se no serie.	s of baptis	m registers	was found	r J	-	-		004		
10. St must six compositions with a Demographic Surveillance Sur. A sample of c. 300 recent namity clara was ugtisted and must for the DSA. The Surveil of the Surveil and St Michael's are the three parishes on Likona Island. The lack of burkien data for much of the 20th century for SM art's and St Like Surveillance and surveillan	Aark's and S	th a Demograf t Michael's are	onic Survei	parishes or	. A sample 1 Likoma Is	sland. The	ecent ramuy lack of bap	y cards was tism data foi	digitised at r much of t	the 20th cent	ury for St M	lark's and S	
Michael's may be because people went to St Peter's (the main cathedral) for baptism.	because peo	ple went to St.	Peter's (the	e main cath	nedral) for	baptism.	-						
12. An additional 7,788 events (7,055 baptisms, 523 marriages, 210 deaths) took place in Bukumbi between 2005 and 2012. These are included in totals for the	7,788 events	(7,055 baptisn	ns, 523 ma	urriages, 21	0 deaths) t	ook place	in Bukumbi	between 20	05 and 20)	12. These are	included in	totals for th	le
Counting souls brychet, but not the MHDU (see note 8). 13. The author distributed the archives of Childholla. The bartism recisters from the other Zambian parishes were extracted by the White Fathers and	oject, but no itised the arc	t the MHDU (. hives of Chilo	see note 8) nga and Cl	hilubula. T	he baptism	registers	from the oth	ver Zambian	parishes w	vere extracte	1 by the Wh	ite Fathers a	pu
made available by the Archhishon of Kasama. These data are incomplete, excluding the earlier registers for many parishes, as well as full dates (only year of	the Archhiel	A	These day	to and in and		-1ititititititititit	in a second second			oo llomo	6.11 Jacco (	Je received the	

Table 1:(Continued)

White Fathers were responsible for transcribing languages in the regions where they worked and for producing the first dictionaries; they monitored rain gauges, food prices, and crop yields; and the resident missionaries kept diaries which today form a substantial archive describing everything from epidemics and famines to local customs and celebrations, and their tussles with traditional authority and the colonial state. Their neatly-kept parish registers were part of a larger project to codify, understand, and 'order' the societies in which they lived (Linden and Linden 1974).

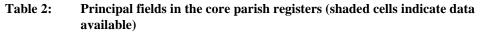
#### 5. What? Description of the sources

The core parish registers consist of books of baptism, marriage, burial, communion, confirmation, and baptism in danger of dying. The registers are large bound volumes, initially printed in Europe with the column headings in Latin or French, and later printed at Catholic printing presses in Africa, with the headings in English or a local language. Each register contains space for the date and reference number of the index event, the first and second names of the index person ('ego'), his/her parents and the godparents/witnesses, as well as the name of the priest. Places of residence and birth are recorded, and the baptism book contains additional space for the recording of follow-up events (communion, confirmation, marriage, and death).<sup>14</sup> The date of death as well as burial is recorded in the death register<sup>15</sup>, and the marriage register includes a note about the type of dispensation granted if one of the couple is not Catholic, as well as an indexed reference to a marriage enquiry book where a detailed description of the relationship history is found. Marriage and burial books refer to the baptism number, facilitating record linkage. If someone moves parish between two events, there is correspondence between priests.<sup>16</sup> Within a parish, the reference numbers for each individual are consolidated in 'alphabet books', which is a nominal index system.

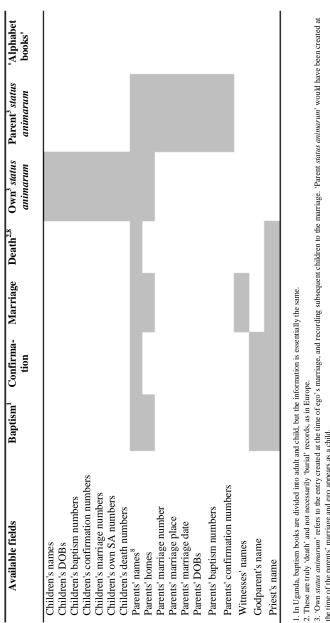
<sup>&</sup>lt;sup>14</sup> A single event could therefore appear in multiple places: e.g., confirmation, marriage, and burial were all recorded in the baptism book as well as in their respective registers, often with dates and places as well. This greatly facilitates record linkage, provided rules are specified about handling conflicting information. Not all entries contain all information; e.g., in the MHDD 80% of baptism entries included a year of birth, 85% and 89% included the name of the mother and father respectively, and 20% included the name of the spouse (Walters 2008: Appendix 1).

<sup>&</sup>lt;sup>15</sup> Unlike in pre-19th century Anglican registers in England, where burial was used as a proxy for death (Wrigley and Schofield 1989).

<sup>&</sup>lt;sup>16</sup> For example, if an in-migrant wants to marry, the priest writes to the parish of origin to request baptism details, and knowledge of any impediments to marriage. The baptism is referenced in the marriage book, together with the parish of origin.



Ego names <sup>4</sup> Ego names <sup>4</sup> Ego boDB <sup>5</sup> Ego baptism number Ego baptism place Ego confirmation number Ego confirmation place Ego confirmation place Ego marriage number <sup>7</sup> Ego marriage place Ego marriage date	tion		status animarum	status animarum	books'
Ego names <sup>4</sup> Ego DOB <sup>5</sup> Ego bome <sup>6</sup> Ego baptism number Ego baptism place Ego confirmation number Ego confirmation place Ego marriage number <sup>7</sup> Ego marriage place Ego marriage date					
Ego DOB <sup>3</sup> Ego home <sup>6</sup> Ego baptism number Ego baptism place Ego confirmation number Ego confirmation place Ego marriage number <sup>7</sup> Ego marriage place Ego marriage date					
Ego home° Ego baptism number Ego baptism place Ego confirmation number Ego confirmation place Ego marriage number <sup>7</sup> Ego marriage place Ego marriage date				111	Ш
Ego baptism number Ego baptism place Ego baptism date Ego confirmation number Ego confirmation place Ego marriage number <sup>7</sup> Ego marriage place Ego marriage date					
Ego baptism place Ego baptism date Ego confirmation number Ego confirmation place Ego marriage number <sup>7</sup> Ego marriage place Ego marriage date					
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Ego confirmation place Ego confirmation date Ego marriage number <sup>7</sup> Ego marriage place Ego marriage date	L				
Ego confirmation date Ego marriage number <sup>7</sup> Ego marriage place Ego marriage date	l				
Ego marriage number <sup>7</sup> Ego marriage place Ego marriage date					
Ego marriage place Ego marriage date					
Ego marriage date					
Ego death number					
Ego death place					
Ego death date					
Own SA number					
Parent SA number					
Spouse's name <sup>8</sup>					
Spouse's baptism number					
Spouse's baptism place					
Spouse's baptism date					
In-laws' names					
Spouse's DOB					
Spouse's home					



the time of the parents' marriage and ego appears as a child.

4. Most people are recorded with two names, but these do not exactly equate to a forename and surname in the Western sense.

5. The date of the index event on each register (e.g., baptism date in baptism register) is recorded as DD:MM: YYYY. Childrens' birthdates are also often recorded DD:MM: YYYY. Other dates are recorded with varying degrees of accuracy, often in years.

6. Place //home' is recorded twice in relation to the index event. This is to record place of the index event (e.g., place of baptism), and place of residence (e.g., name of village), but place of origin (e.g., birthplace) is sometimes recorded.

7. The recording of follow-up information such as confirmation, marriage and death data on the baptism entry declined over time.

8. Either the name of the spouse or the name of the parent/s were recorded on the death entry, depending on the marital status of the deceased. Record linkage is sometimes needed to distinguish which name is entered.

Table 2:

(Continued)

In addition, parishes in all countries except Uganda keep *libri status animarum*. These 'state of souls' registers also exist in Catholic Europe and have been the mainstay of Italian and some Eastern European historical demography (Manfredini and Breschi 2008a, 2008b, Breschi, Manfredini and Fornasin 2011, Guzowski 2012). They were prescribed by the Roman Ritual of 1614, which demanded that the priest "carefully inscribe [in the *liber status animarum*] each family in his parish, with everyone living in it, and take note of those fit for Communion, and those fit for catechistical instruction or for Confirmation" (cited in Laslett 1977: 53). They were a dynamic record to show whether parishioners were eligible to receive sacraments.<sup>17</sup>

European *libri status animarum* have been described as "census-like" (Öri and Pakot 2011), and are a hybrid between a continuous population-register and a census, the latter often conducted in preparation for canonical visitations (Willigan and Lynch 1982). In Africa, *libri status animarum* are both prospective and retrospective, created either at the time of marriage or in-migration or through a parish census, and updated in a continuous and cross-sectional fashion. The records contain dedicated space for the birth, baptism, marriage, and death dates and reference numbers of each of the parents, and the birth and baptism dates and reference numbers of children (biological and fostered). Single people identified through the census are listed in corresponding books of *singuli*.

In some parishes, two copies exist of the *libri status animarum*: a set of books or cards that remain in the parish office, and a set of 'touring cards' that were used on outstation visits. One priest described using these cards in the 1960s:

"We got about on motorcycle in those days. I would do up to a thousand kilometres a year. Imagine! It was a lot, on those dirt paths...all the way from up in the mountains down to the lakeshore. It would be a party when I arrived. The children would chase me down the track and there would be dancing and singing and they would cook...There were three of us at the mission but Father [...] was old and you had to be strong so it was just for us two on our motorcycles. Eee we travelled!

"When I arrived, I would take those cards out of my bag and I would call out 'so and so, son of so and so', and usually no-one would come, because they didn't recognise that name! That was the name they were baptised but not one they used in the village. So I would call out 'so and

<sup>&</sup>lt;sup>17</sup> In Europe, these registers may originally have been a means of assuring numbers against a growing Protestantism, but by the 18th century they had become a broader form of parish administration, with dates of birth and residence recorded, and including non-Catholics (Őri and Pakot 2011).

so, son of so and so, married to so and so, father of so and so'. Eventually the person would come!" (Personal communication Fr. Claude Boucher).

As each family finally reported to the priest, he would question them to ascertain any change in circumstance, e.g., new births, deaths, or living arrangements. The touring cards were then returned to the parish office where information was updated in the *liber status animarum*.

The Catholic *libri status animarum* are analogous to the family books kept by the Lutheran Church which have been the basis for some historical demographic studies in Namibia and Tanzania (Colwell 2000, Notkola and Siiskonen 2000).<sup>18</sup> *Libri status animarum* have two additional advantages. First, they include space to record people's attendance at significant services (e.g., Easter mass), and the payment of tithes or contributions at specific points in the religious calendar. They also formed the basis for the periodic parish censuses, which were conducted to facilitate parish administration and to provide statistics to the White Fathers headquarters in Rome. These crosssectional markers of presence in the parish are essential when dealing with censoring (see "When?"). Furthermore, the *libri status animarum* contain information on the religiosity and de facto living arrangements of Catholics (see "Why?").

#### 6. Why? Purpose of parochial registration

Understanding the purpose of the parish registers (and in particular the *libri status animarum*) helps to underscore their demographic worth. As in Europe, *libri status animarum* were used to determine a person's eligibility to receive the sacraments, and they therefore contain data on transgression of Catholic family structures as well as conformity. As 'state of souls' registers, they go further than simply recording families, and provide a dynamic update of the status of those families, and the degree of their association with the Church (their 'religiosity').<sup>19</sup>

In Mua, the *libri status animarum* are structured similarly to family reconstitution forms, with information about the husband and wife (birth dates, baptism and

<sup>&</sup>lt;sup>18</sup> Historical demographers working on Lutheran records in Namibia argued that "[v]arious vital registers are also maintained in the Roman Catholic and Anglican parishes, but the main book or family book is used only in the Evangelical Lutheran parishes" (Siiskonen, Taskinen and Notkola 2005: 393). In fact, the Catholic *libri status animarum* contain very similar information to the Lutheran family books.

<sup>&</sup>lt;sup>19</sup> Religiosity is notoriously difficult to measure and define in studies of demography and religion (Yeatman and Trinitapoli 2008).

confirmation details, names of their parents, etc.) at the top of the form and the children listed below with their dates of birth and reference numbers for baptism, confirmation, and marriage.<sup>20</sup> On the reverse, further information is provided about the actual living arrangements of the family, numbers of unbaptised children, extra-marital relations, etc. Others, as in the Zambian parishes, are in register format. Parents are listed at the top of the page with children below, and second and third marriages are also listed, as are children from previous marriages.

Village:			llage:		
AI WITHIN CITY ANTING	band's name		KAZI Wife'sn	and a subscription of a rate	
Zaka Hus	band's year of b	pirth Zal	kaWife's y	ear of birth	
Atate Hus	band's father	At:	ateWife's fa	ather	
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	band's place of	origin M	udzi Wife's p	lace of origin	n
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	and the second second				
	band's confirma	ation UI	imbitso: Wife's c		
UKWATI	Marriage date	19		No:	Marriage no.
ANA	Kubadwa	Ubatizo	Ulimbitso	Ukwati	Maliro
	Date of birth	Baptism	Confirmation	Marriage	Funeral/deat
Child no. 1 name					
Child no. 1 name Child no. 2 name	~	~	2	~	~
The second	~ ~	~ ~	~ ~	2 2	~ ~
Child no. 2 name	~ ~ ~			12122	THE REAL PROPERTY OF

Figure 2: Example of the *liber status animarum* from Mua Parish, Malawi

As well as information on family structure, the cards record whether a person attended church and prayed, or whether they were "lazy" in their faith. The story of some families unfolds on the cards through updates scrawled by the priest over several visits. Missionary conflation between piety, morality, and capability is manifest in how physical and mental disabilities are noted on the cards, together with comments about whether people pray and their parenting skills.

<sup>&</sup>lt;sup>20</sup> See Wrigley (1966) on family reconstitution.

For the missionaries, parish registers not only facilitated effective administration, but also a form of intimate paternalism that might otherwise have been impossible in these vast parishes. With touring cards, priests could appear to recall detailed family relationships, names, and events when they visited outstations, which was a powerful tool in establishing the relationship between Church and people. One historian of Mua suggested that meticulous record keeping was also a means of imposing or imagining order and control over the transient parish population, and a means of coping with the uncertainty of missionary life:

"A record was kept of every Christian family in the district in a status annimarum [sic]. At the mission office were a large assortment of registers in which the Christian life of the parish was translated into statistics. Registers of births, baptisms, confirmations, marriages, deaths, banns, catechumens, and marriage cases, were maintained with scrupulous care. The Agurupa [Christian leaders] visited villages armed with a copy of the status annimarum [sic] and new entries were written into the main record at the mission office. Every soul was accounted for. Even if the shifting population of the lakeshore never had the makings of the stable organic society of priestly dreams, it could at least be reduced to canonical order in the station records. There was something very touching about the missionaries' careful returns of annual totals of communions and confessions sent to their bishop when they were at a loss to explain what made their parishioners turn up for, or absent themselves from, weekly mass" (Linden and Linden 1974: 201-2).

Understanding missionary motivations for data collection therefore reveals some of the strengths of the data for demographic reconstruction. It is equally important to consider the extent of local compliance (Breckenridge and Szreter 2012). Sites of resistance existed and are described below, but overall people were – and remain – surprisingly willing to communicate detailed personal histories for recording in the missionary files. One reason for this compliance may be that the lack of secular identity registration, and the quality, consistency, and continuity in the White Fathers' records made (and make) these data useful for people who otherwise had (have) no legal identity (Mahapatra et al. 2007, UNICEF 2013). During fieldwork, I often observed people visiting the parish office in order to ask the clerk to check their details. One would need to know his date of birth because he was applying for a job, another would need the record of her husband's death to enable a new marriage elsewhere, a third would need the baptism details of his children to enrol them in a Catholic school. On

the clerk's regular 'office day' I would be banished while s/he used the books to resolve queries and requests from villagers. The registration system was evidently well used and useful for people in both their religious and secular lives, particularly at times of migration, employment, or marriage.

Just as in pre-industrial England before the advent of secular identity documentation, parochial registration in Africa can be used to form "actionable legal personhoods" (Szreter and Breckenridge 2012: 22).<sup>21</sup> The Church itself portrays the utility of its registration in those terms. The Father Superior of Mua Parish in Malawi described to me how he promotes the safe-keeping of the *buku la banja* (the 'family books' carried by all Catholics in Malawi, with records of baptisms, marriages, and burials to family members): "I say to them, this is your passport", he explained, waving one of the (passport-shaped) books in the air (personal communication: Fr. O'Shea). Judging by the ancient *buku* presented for parish stamping following ecclesiastical events, they do seem to be highly valued, allowing a person to carry an official record of their Catholic history as they migrate between parishes, and in case of changing personnel in their home parish.

The enabling nature of parochial registration and the lack of secular alternatives clearly motivated people to record events. However, the extent to which registration systems were structured to be useful varied between places and over time, with further implications for the types of demographic questions that can be answered.

### 7. Where? Geographic variation in parochial registration

There is broad consistency in registration in all White Fathers' parishes in Africa, but some divergences are evident over time and between places. The White Fathers' provincial and global headquarters prescribed the structure of the system, but it also reflects local church history and the socio-economic and political context. In Malawi and Zambia, where parishes were more affected by labour migration, additional books were kept to record Catholics migrating in (Malawi, Zambia) and out (Zambia) of the parish.<sup>22</sup> In Zambia, additional books were kept of baptisms to people away in the copper mines. The Tanzanian parishes did not record movement in the same structured way, although there was inter-parish correspondence.

<sup>&</sup>lt;sup>21</sup> This distinguishes registration from enumeration, which may bring benefits in terms of improved services and monitoring but does not confirm identity at the micro-level in a way that is enabling for accumulation and inheritance and the settlement of claims.

<sup>&</sup>lt;sup>22</sup> These were the books of *alendo* (travellers, Malawi) and 'Incorporations' and 'Excorporations' (inmigrants and out-migrants, Zambia).

Southern Uganda is a heartland of African Catholicism, following the mass conversion of the populace and the martyrdoms of the 1890s (Waliggo 1976).<sup>23</sup> Villa Maria and Bikira parishes were integral to this ecclesiastical expansion. African clergy took an early role in running the Church<sup>24</sup>, and these parishes were effectively autonomous from missionaries by the early 1930s. The Ugandan data differ to those in other countries: rather than a single baptism book, there are separate registers for adult and infant baptisms (reflecting the early shift to second generation Catholics); records are less detailed than elsewhere; and there are no death records, *libri status animarum*, or evidence of parish censuses. Pressure of numbers may have militated against detailed data, or reduced its necessity, or the departure of European missionaries 60–80 years prior to their departure from other parishes may have given rise to a different system of recording.<sup>25</sup>

If the relative acceptance of Catholicism in Uganda created a large but shallow set of parish registers, the reverse was true in areas where missionaries met resistance. In Mua parish (Malawi) there was a fractious relationship between the mission and traditional authority (Linden and Linden 1974, Kachipila 2006). In the first half of the 20th century, people were asked to choose between their Catholicism and the religion of their ancestors: it was seen as incompatible to be Catholic and to engage in customs such as initiation ceremonies or to attend dances held by the Chewa secret society, the *nyau*. The missionaries pitted themselves against the *nyau*, and there are frequent descriptions in the diaries of perceived triumphs and defeats in this battle over Chewa souls. The missionaries kept a record of Catholics who were *nyau* (or who had been influenced by them) in the *libri status animarum*. Notes about *nyau* affiliation were often accompanied with comment about the frequency of church attendance, prayer habits, and parenting abilities.

<sup>&</sup>lt;sup>23</sup> By 1960 there were more than 300,000 baptisms in the Ugandan Rubaga Archdiocese compared to fewer than 120,000 in the other archdioceses in this study, and about 50% of the population was Catholic compared to around 10% in all other areas, except Kasama Archdiocese in Zambia, where about half were also Catholic (White Fathers Annual Statistics, 1960–61).
<sup>24</sup> The first ordinations of African clergy occurred here in 1913, and the first African bishop (Joseph)

<sup>&</sup>lt;sup>24</sup> The first ordinations of African clergy occurred here in 1913, and the first African bishop (Joseph Kiwanuka) was consecrated in Villa Maria in 1939 (Nolan 2012: 376).

<sup>&</sup>lt;sup>25</sup> Records were lost during the politically unstable 1970s–1980s (personal communication Fr. Paul Ssegawa), and it is now hard to establish which records simply never existed, and which were destroyed during those times.

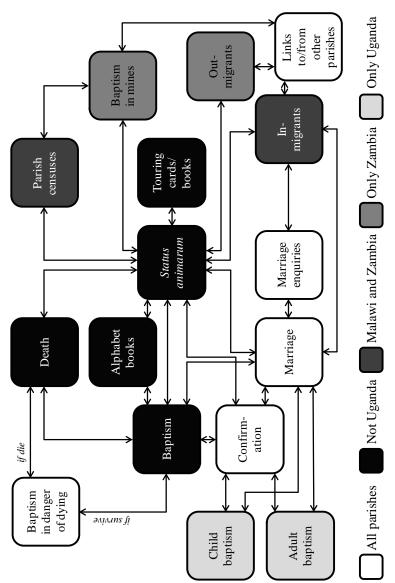


Figure 3: Structure of registers in parishes founded by the White Fathers, by country

Conflict between mission and *nyau* was especially intense at the time of someone's death, with both priests and *nyau* wanting to secure souls by performing or officiating at funerals. The Catholic practice of baptising in danger of death led *nyau* to hide dying members in the bush in "macabre squabbles over corpses" (Linden and Linden 1974: 129). At the end of July 1972, the diarist of Mua mission described a "quite interesting and even exciting experience" concerning the burial of a Catholic in Kanchamba called Abraham. Abraham was a "mfiti [witch] who prevented formerly Christian burials of others (since formerly he was a Nyau)", and although he had since "repented and become a receiving Christian", the nyau wanted to dance at his hut, while the missionaries were simultaneously requested to pray: "Father Mernier went to the catechist saying: 'isn't it a shame when the *nyau* burry [sic] the world, whom we gave sacraments, and even cloth and food. What did the *zirombo* [animal characters] give him - and now they want to burry [sic] him - and laugh at us. I am intent to go there." Three priests, a sister, and a catechist went to Abraham's hut, and praved and kept vigil while "there came many *nyau*, drumming, dancing but without uniform [masks]". The stand-off lasted all night, climaxing when "suddenly these nyau came near behind our chairs, uttering cries of mourning very loud, and two went up to the house crying as well. We raised our voices in the rosary and nobody moved" (Mua mission diary 30 July 1972). These fights over funerals sometimes resulted not only in cacophony, but in more serious unrest (Linden and Linden 1974: 125).

Conflict over funerals (and hence priests' awareness of deaths) may be why burial recording is more complete in Mua than in other parishes. The ratio of burials to baptisms is about 1:3 in Mua, compared with less than 1:4 elsewhere (and compared to no burial recording in Uganda). Although 'representativeness' of the wider population may be higher in regions like Southern Uganda where a greater proportion of the population converted, the data are richer in areas where peoples' relationship with the mission was more fluid or contentious, and where they were more likely to be caught by competing influences.

#### 8. When? Time and censoring in parochial registration in Africa

The moment that missionaries docked their canoes or parked their caravans and set up camp at each prospective mission station was the point at which local populations filtered into observation, but they did so falteringly and selectively. Other important 'moments' are significant in determining the 'reconstitutability' of a parish: the foundation of a cathedral or hospital; the outbreak of a war; the provision of food aid or health services by the Church; the transfer of the parish to diocesan priests or alternative missionary societies; the establishment of competing churches or religious influences; the end of colonialism; the timing of my fieldwork. These moments all have censoring influences because they affected the likelihood of conversion, adherence to the Church, and the possibility of follow-up. For example, the provision of food aid in times of famine led to surges in baptism in some parishes, and similarly the establishment of clinics and schools by parishes would draw local communities to the Church. The departure of missionaries led to changes in recording practices that creates censoring. Knowing what weight to give to that censoring is the most important technical challenge for African historical demography. I address the challenge here, and describe how the *libri status animarum* allow us to bypass some of the constraints of traditional family reconstitution.

In Europe, most people recorded in historical parish registers were born into the Church, and the long time span of family reconstitution studies means cohorts can be followed throughout their lifetimes.<sup>26</sup> Even so, the observation of a complete marital history requires a couple to be continuously resident in a parish, and there is debate about how far this select population of 'stayers' (the 'reconstitutable minority') is more widely representative (Ruggles 1992, Wrigley 1994). In Africa, traditional reconstitution methods would yield an even more select population of 'stayers' because the congregation of a missionary and youthful church includes many first-generation converts who were baptised as adults, and many people who are still alive. In a parish started at the turn of the century, with data available to c.2010 (e.g., Mua, Chilubula, Chilonga), women born before 1950 could be followed up to the end of their reproductive years. Assuming adult life expectancy was relatively low, there is also potential for burial recording for those cohorts. However, in practice, many of the converts in the first few decades of a new parish were either infants baptised in danger of dying or people baptised as adults, implying left-truncated fertility histories. In the MHDD it was not until the 1930s that more children than adults were baptised each decade. In the context of Henry/Wrigley logical family reconstitution rules, which would demand end-of-marriage dates (death or remarriage), and (generously) assuming life expectancy of no more than 60 years and follow-up to c.2010, this would effectively reduce the sample to people born and baptised in the 1930s–1940s (Wrigley and Schofield 1973) (Figure 4).

<sup>&</sup>lt;sup>26</sup> European historical demography with parish registers was enabled through family reconstitution which permits calculation of demographic rates in the absence of a known population total by providing person-time-at-risk data through observation of 'complete' marital histories, where the end of marriage is defined as the remarriage or death of one or other spouse (Fleury and Henry 1956, Wrigley 1983, Wrigley et al. 1997).

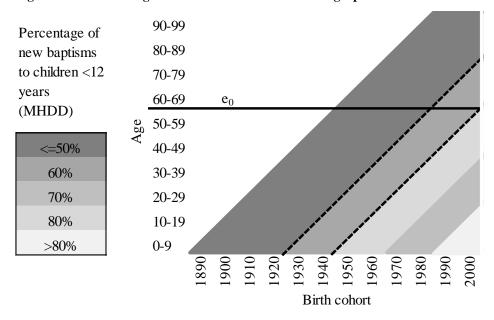


Figure 4: Censoring in the Mwanza Historical Demographic Database

Note: The figure shows that if we assume life expectancy at birth is less than 60 years, then we can only expect follow-up to death for cohorts born before 1950. Furthermore, prior to 1930 more than half of new baptisms were to adults and not to children. The use of these records for demographic reconstitution is limited due to the problem of left censoring. Hence, the best quality data for a reconstitution study date from the 1930s-1940s, despite having available registers dating back to the 1890s. Earlier and later data can be used, especially in the context of event history analysis, but it is important to note these censoring effects.

A further censoring factor is the decline in record keeping following Independence (1960s). Parish clerks began to replace priests as bookkeepers in this period, and missionaries left some parishes, as they were handed over to the diocese. Although index events were still recorded with the same detail, there was less consistency in recording follow-up data; e.g., it became rarer to find a person's marriage or burial recorded on their baptism record. Hence, from the 1960s we are more reliant on nominal record linkage to establish life histories.

Therefore, censoring, taken with the under-reporting of death in some parishes, means that traditional family reconstitution in Africa has a limited prospect, which is why the *libri status animarum*, migration records, parish censuses, and touring books are so important.

In describing the Roman Ritual prescribing *libri status animarum*, Peter Laslett noted:

"If every beneficed priest of the English Church had in fact kept...these...registers – indeed even if some of them (a very small proportion would have sufficed) had kept a Liber status animarum to hand down to us – then the task of the historian of social structure would be transformed. We should have the chance of reconstructing the population of our country as it was during all those generations which went by before the official census began in the early nineteenth century, of doing it swiftly, accurately and completely" (Laslett 1977: 53–4).

As Laslett hints, and as Del Panta et al explicate, *libri status animarum* "entail a change in the [family] reconstitution technique" (Del Panta, Rettaroli, and Rosental 2006: 601). Not only do the registers ease the demands of nominal record linkage because children and parents are recorded together, but their cross-sectional markers of presence in the parish (e.g., attendance at services) enable calculation of observation time without relying on events that are also outcomes of interest. Using event history analysis, demographic rates can be estimated even when complete marital histories are rare. An example is provided in Mua, where a cross-sectional parish census was conducted in 1972. Priests visited all households, and noted the presence of a family by marking "1972" on the corner of their enty in the liber status animarum, and this can be used as a censoring date, enabling the inclusion of fertility histories which would otherwise be dropped from analysis due to the lack of an end-of-marriage or parental death date. Libri status animarum and touring books contain information on attendance at specific services (e.g., the Zambian touring books record dates together with the letter 'k' for kulaya, meaning the renewal of baptism vows at Easter (personal communication Fr. Gotthard Rosner); the Tanzanian touring cards contain dates together with the annual amount paid in contributions at Easter mass). Not all of these data were kept consistently over time or are necessarily complete, but all such timestamps expand the possibility of observation.

Shifting away from the traditional model of family reconstitution is therefore important because of censoring, but it is also important because we are trying to measure change in African families and reproduction over time, and that change will not be captured using a method which assumes the timeless centrality and relevance of (Christian) marital fertility. These interstices between evidence, method, and object are explored in 'Who?'

# 9. Who? Population composition and categorisation in African parish registers

If censoring presents the greatest technical challenge of African historical demography, then dealing with compositional change and the issue of categorisation is the greatest conceptual challenge. African Catholic populations were more dynamic than historical European populations due to the nascent missionary Church and the colonial context. Understanding the constitution of the population – who became Catholic, and at what junctures they moved in and out of Catholicism – is central to knowing how to treat the data. Furthermore, divergences in how being and becoming were conceptualised in Catholic versus local imaginings give rise to spaces in the record. We are reliant on the ontological categories employed by the Catholic Church to measure change in African families, while the Church was simultaneously an agent of change in those families.<sup>27</sup> This raises the question of whether measuring change using sources created by agents of change implies inherent bias or selectivity.

Becoming a Catholic in turn-of-the-century East and Central Africa was a risky undertaking<sup>28</sup>, and historians have emphasised that early converts throughout the region tended to come from "subordinated rather than dominant groups" (Hunt 1999: 43). Such converts were women running away from husbands or unwanted betrothals or who had been divorced for infertility (Larsson 1991, Hodgson 2005, Nolan 2012). Some of the first catechists in Bukumbi were freed Ganda slaves (Austen 1968, Nolan 2008), and four of the earliest converts on Kome Island were women from Maasailand, who had been seized in German raids in 1899-1890 and entrusted to the mission (Larsson 1991: 73, Grondin 1995). Baptism peaks coincided with years of famine, drought, and epidemic, as people went to the mission for security and food aid. The upsurge in baptisms across the region during the famine and influenza pandemic of 1918 is one example (Iliffe 1979: 260). In Bukumbi parish there was an eightfold increase in baptisms, probably because 'Bwana Malole' (Father Spectacles) was known for distributing food aid (personal communication Fr. Frank Nolan; and Figure 5).

<sup>&</sup>lt;sup>27</sup> Critical literature on how categories are constructed for demographic data collection, and how power relations affect the terms and boundaries of that measurement, is relevant here (Szreter, Sholkamy, and Dharmalingam 2004).

<sup>&</sup>lt;sup>28</sup> Some of the earliest Ugandan Catholics were famously martyred for their faith in the Buganda court in 1885–1887 (Faupel 1962).

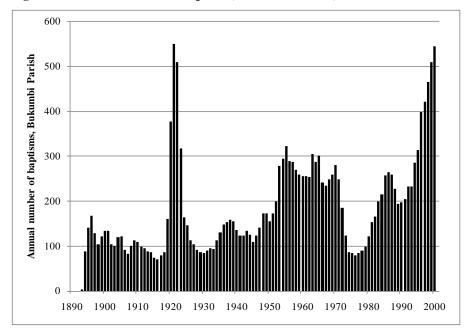


Figure 5: Annual count of baptisms, Bukumbi Parish, Tanzania 1890–2000

That people sought baptism as a means of managing uncertainty<sup>29</sup> raises two issues for demography. First, even missionaries were suspicious of the 'depth' of conversion achieved when people came to the Church for material reasons such as food aid, and this has implications for who stayed with the Church, and for whom there are follow-up

<sup>&</sup>lt;sup>29</sup> The 'uncertainty' and contingency of life in Africa may be integral to reproductive decision-making in the region, and indeed may drive African exceptionality in fertility transition. Caldwell hypothesised that African fertility transition would be characterised by a decline in fertility at all ages and parities, driven by widening birth intervals rather than by age- and parity-specific stopping behaviour (Caldwell, Orubuloye, and Caldwell 1992). He proposed a religio-cultural explanation which focused on the social supports for high fertility (Caldwell 1987). More recently, it has been proposed that the exceptionally long birth intervals in the region represent a rational and evolving response to high levels of personal and political uncertainty and insecurity, rather than normative conformity to a cultural ideal (Johnson-Hanks 2004, Moultrie, Sayi, and Timæus 2012). If uncertainty/change is also a driver of religious conversion because the Church is an important means of managing uncertainty – or of dislocation from the Church because of religious censure of certain acts – this raises questions about bias and how far we will capture the role of uncertainty in driving demographic action over time using these data.

data.<sup>30</sup> Second, such converts had traumatic (atypical?) life histories characterised by abandonment, divorce, illness, infertility, famine, and freedom from slavery. Change in circumstance could lead to departure from the Church, e.g., marriage breakdown or polygamy (oftentimes through widow inheritance, where older mechanisms of social security came into conflict with Christian values). If baptism, and also departure from the Church, coincided with demographic 'conjuncture' this may introduce 'bias' (Johnson-Hanks 2002, 2004). It is likely that 'bias' changed over time as second and third generation Christians were born, but its direction is difficult to predict, and it is not clear whether it should be seen as a 'problem' for demographic reconstitution and something to be factored out of analysis, or as a legitimate object of study, revealing of the institutional, intellectual, and social pathways through which people enact agency in reproduction (Watkins and Warriner 2003, Johnson-Hanks 2015).

As missions became established and began to build dispensaries and schools, the reasons for seeking baptism shifted, implying changing population composition and a growing Catholic hegemony. Catholicism became a pathway into the administration and towards social mobility. The Church shifted from proselytising freed slaves towards working with the state to educate elites for indirect rule (Austen 1968: 140). Employment opportunities arose through the Church directly, and through education. Christian 'readers' all over Africa came to dominate the lower ranks of colonial administration, and later led nationalist movements through to Independence (McCracken 2008). Christians not only had access to health and education services, with implications for mortality and reproduction, but through these services the Church (sometimes in collaboration with colonial and commercial concerns) sought to establish a Catholic moral order in Africa, instilling as normative a western model of the Christian family and domestic life, and controlling, forming, and constraining sexuality in new ways (Hunt 1988, Hansen 1992, Hunt 1999, Smythe 2006).

There is a vast, multi-disciplinary, literature on the family in Africa, which I will not attempt to summarise here. There is, furthermore, great variation between (and within) the parishes in this study in terms of their kinship structures, levels of pre-transitional fertility, and ideologies of family and family law.<sup>31</sup> Notwithstanding this

<sup>&</sup>lt;sup>30</sup> Alternatively, it may be that people who took risks to become Christian, or did so out of material or social desperation, in fact became its most devoted converts. Indeed, one missionary in Machame, Tanzania lamented that by 1907, Christianity "was becoming a pleasantly approved social custom, lacking all the ardour and conviction shown by the first converts" (quoted in Iliffe 1979: 231).

<sup>&</sup>lt;sup>31</sup> The Malawian and Zambian parishes are largely populated by people traditionally considered to be matrilineal (major tribes: Chewa and Bemba respectively), while the Tanzanian and Ugandan parishes are largely traditionally (and I am simplifying) patrilineal (major tribes: Sukuma, Kerewe, Ganda). Wide variation in fertility has been documented (even sub-nationally) in colonial Africa (Blacker 1962, Olusanya 1969b, Romaniuk 1980). Colonial anthropologists and missionaries documented diversity in customary laws

complexity, there is undoubtedly contrast between customary and Catholic models, which is fundamental to understanding missionary (and colonial) intervention in African domestic and sexual lives. Whether viewed from within an evolutionary framework or from one based around the relations of production (Vaughan 1983), there is broad concurrence that inheritance systems in Africa favoured lineage over the conjugal, and that as a result "Eurasian levels and patterns of pre-marital and extra-marital fertility and the melting together of pater and genitor contrast strikingly with [high] African levels of 'illegitimate' fertility and the traditional lack of interest in biological fatherhood" (Lesthaeghe 1989: 26). Missionaries were particularly taxed by the prevalent practice of polygyny, which was seen as "the chief stumbling block"<sup>32</sup> to Christianity (Hunt 1991).

Priestly concern about the morality of polygyny and extra-marital sex chimed with colonial worries about the birth rate (Kuczynski 1949: 396, Vaughan 1991: 142). In the first half of the 20th century there was widespread concern about the possible depopulation of Africa, because of rising rates of venereal diseases coupled with very high levels of infant mortality (Kjekshus 1996, Koponen 1996). While colonial concerns may have been economic (a determination to meet the demands of labour supply), and missionary thinking was largely ideological/moralistic, there was concordance over the likely causes and possible remedies for perceived population decline. Two explanations prevailed. The first was that 'traditional' prolonged lactation and postpartum abstinence were associated with polygyny and high levels of extra-marital sex (which led to the rapid spread of sexually-transmitted diseases (STDs))<sup>33</sup>, the second was that contact with Europeans had led to a breakdown of traditional authority leading to 'degeneration' and a lack of control over sexuality, especially of the young (Vaughan 1991). The proposed solution was similar: reinforce patriarchal control through three

governing marriage and reproduction; for example, the Tanzanian Government Anthropologist, Hans Cory, described 11 different forms of marriage among the Sukuma in the 1940s (Cory 1953).

<sup>&</sup>lt;sup>32</sup> This is a quote from a report by a colonial official who visited the parish of Kagunguli on Ukerewe Island in Tanzania in the 1930s (E.C. Baker, 1931, 'Report on Administrative and Social Conditions on Ukerewe', Tanzanian National Archives (TNA) V10/20298 volume 1 pp.19-20).

<sup>&</sup>lt;sup>33</sup> The causal relationship between polygyny and postpartum abstinence/prolonged lactation is contested, depending on whether a nutritional-environmental explanation is favoured (the Whiting framework) or one based on a wider argument about social organisation, focused around gerontocratic control and the unilineal descent system (Saucier 1972). The former argues that the need for prolonged breastfeeding and postpartum abstinence in regions where protein intake is low (i.e., regions of swidden agriculture) leads to polygyny as men take extra wives to satisfy their need for sex; the latter argues for the reverse causal mechanism, in which abstinence and prolonged lactation are a consequence of polygyny which itself (together with bridewealth and strict rules governing social relations) is an expression of gerontocratic community control in unilineal descent systems (Schoenmaeckers 1981, Lesthaeghe 1989).

methods.<sup>34</sup> First, quash the practice of post-partum abstinence and extended, responsive breastfeeding, which was associated with polygyny and men seeking extra-marital relationships, as well as having perceived adverse psychological effects for infants (Vaughan 1991: 128–9). Second, abolish any customary practices perceived to encourage promiscuity, such as dances and initiation ceremonies (Kachipila 2006). Third, campaign against the payment – or at least the rising price – of bridewealth, which was seen as prohibitive of marriage, in turn encouraging pre-marital sex and a lack of stability (Cory 1953: 16, Larsson 1991: 95).

Missionary work to relocate the morality of reproduction therefore became a pivot of Church-community interactions in colonial Africa. In the Belgian Congo, Nancy Rose Hunt has documented how a (self-professed) "crusade to combat the prejudices that separate the spouses" (i.e., reduce post-partum abstinence and extended lactation) was launched in the 1930s, both within the confines of mining compounds where infant feeding was closely controlled, and more widely through the network of missionary maternity and child welfare centres where "missionaries were well known to combat the custom by advising "couples to resume conjugal commerces a certain while after birth" (Hunt 1988: 407). In 1920s' Uganda, Anglican missionaries in Mengo railed against "the entire absence of a national conscience against the sins of immorality" and launched the Social Purity Campaign, which aimed to instil a sense of shame around promiscuity and polygamy and promote "domesticated existence and family life" (Summers 1991: 796-8). At the same time, Catholics at Nsambya were training midwives to act as ambassadors, spreading Christian morals into families and influencing women at the time of birth (See also: Hansen 1992). In northwest Tanzania, Catholic missionaries campaigned hard against the Sukuma practice of sending young women to live in the shared dormitories known as the *maji*, where they received advice about marriage and sexual life (Cory 1953: 39-40, Tanner 1955: 239), and across Africa missionaries tried to intervene in adolescent initiation (Steegstra 2005) and female circumcision (Thomas 2003, Nolan 2012: 303 footnote 770). In Sukumaland and in Central Malawi, missionaries tried to persuade the colonial state to legislate against dances organised by Sukuma and Chewa societies, which they saw as sites of promiscuity and as a "hot-bed of venereal disease".<sup>35</sup>

<sup>&</sup>lt;sup>34</sup> Historians and sociologists concur that Christian approaches to 'stabilising' the family in Africa may be seen as more revolutionary or modernising than interventions by other westerners (e.g., colonial officials/contemporary Non-Governmental Organisations). Whereas the latter have generally sought to reinforce and work through existing systems, the Church established new patriarchies which often undermined traditional authority structures (Vaughan 1991: 68, Swidler 2013).

<sup>&</sup>lt;sup>35</sup> Quote from: Father Langemeyer's address to the provincial education committee (Mwanza), 7 May 1929, 'Provincial education committee 1927-1935', Mwanza Regional Archives (MRA) 10/107/122.

There is evidence that these missionary morality campaigns had an impact: isolated surveys and anthropological observations from the 1950s-1970s indicate that birth intervals narrowed, and narrowed fastest for Christians (on Unyakyusa see Wilson 1957: 232, on Kilimanjaro see Raum 1972: 43), and that "the old channels [i.e., the *maji* in Tanzania] through which the instruction in birth-preventing techniques took place do not function any longer" (Varkevisser 1973: 236, Allen 2000). Contemporary commentators observed higher fertility among Christian women even as early as the 1920s (Hunt 1988: 408), and late-colonial/early post-colonial censuses echoed that finding (Olusanya 1969a). These observations are fragmentary, and there has been a call for more systematic quantitative research (Hunt 1988: 432).<sup>36</sup> The parish registers offer exactly that opportunity - to study whether and how missionary attempts to institute a new moral demography<sup>37</sup> had an impact, and what the implications are for the long-view of fertility transition on the continent. However, if missionaries were potential agents of demographic change we might question whether that change is measurable with sources which they created, or whether the parish registers will simply restrict observation to the types of reproduction and family organisation sanctioned by the Church.

To a degree, this worry is circumvented by the Church's own administrative need. As described above in 'What?' and 'Why?', the missionaries had an interest in recording transgression as well as adherence to Catholic moral codes, not least because it enabled them to keep track of who was eligible to receive communion. The *libri status animarum* contain the kind of data on polygamy, pre- and extra-marital relationships, and resulting children which enabled the missionaries of Mua to record on the fiftieth anniversary of that parish that:

"We now have 6,140 baptised Christians, 1,579 families; 639 of these are broken marriages. Only 2,100 of our 3,324 adults are allowed to receive the sacraments; 2/5ths of our parishioners never receive communion. Out of a total of 2,516 children and youngsters, 750 are illegitimate" (Mua Mission diary, 1 January 1952).

<sup>&</sup>lt;sup>36</sup> Nancy Rose Hunt concluded: "the decline in birth spacing customs and intervals in twentieth century Central Africa appear less an innocent and inescapable outcome of "modernisation" in light of candid colonial aspirations to shorten them in the Belgian Congo", but called for more quantitative data (Hunt 1988: 432).

<sup>&</sup>lt;sup>37</sup> If "moral economy' is the study of how economic activities of all kinds are influenced and structured by moral dispositions and norms, and how in turn those norms may be compromised, overridden or reinforced by economic pressures" (Sayer 2000), moral demography is the study of how demographic decision-making is structured by a set of codes about honour and respectability ('moral dispositions', which are framed by social history), which interact with contingent circumstances to produce demographic outcomes.

Even in the Ugandan parishes, which did not have *libri status animarum*, Catholic ontological categories can be breached by reconstituting (even polygamous) marriages through grouping sibling sets on the basis of parental names in the baptism register (Walters 2008). This is crucial, given that Catholic marriage co-existed with customary marriage, meaning that the Catholic wedding may be an inappropriate marker for the start of marital fertility (see above, 'When?').<sup>38</sup>

Therefore, the African Catholic registers permit the quantitative reconstruction of African demographies both within and without formal Catholic ontological categories, presenting the possibility of charting 'true' demographic rates over time. What is more, there is a rich archival (and potential oral historical) record of qualitative data about Catholic-customary tussles over morality and reproduction which will permit insight into a) what might be missing in the quantitative record and b) the intimate negotiations that underpin ideational change in demographic development.

Just as it is relevant to consider what drove Africans to become Catholics, knowing the motivations of the missionaries can help explain the missionary archives. Personal commitment to 'their' people, their isolation, the risks they took in devoting their lives to Africa and their mission, their oftentimes academic and scholarly personalities, led missionaries to act as unofficial and amateur diarists, linguists, oral historians, anthropologists, and cultural commentators and interpreters of the societies with whom they lived and worked. As a result they often acted as arbitres between people and the colonial state, and even between local communities. The diaries, letters, ethnographies, dictionaries, letters, sketches, and observations kept by the missionaries form a large archive split between the main White Fathers' library in Rome, and regional/provincial headquarters and cultural centres across Africa.<sup>39</sup> Three examples demonstrate the ways in which this archive can be used to enhance the quantitative record.

First, missionaries documented dissonance between Catholic categories and local practice, which can explain gaps and silences in the record. One instance is this description of Chewa ideas about infancy found in notebooks kept by a missionary in Mua, Malawi:

<sup>&</sup>lt;sup>38</sup> I observed the weddings of about 80 couples in Mua in 2012 and a very large proportion of them were to couples already married according to customary law and who already had children, emphasising that "marriage is not necessarily the point at which reproduction starts" (Lesthaeghe 1989: 25).

<sup>&</sup>lt;sup>39</sup> White Fathers' archives exist at the Kafukufuku Research Centre, Mua Parish (Malawi), at the Faith and Encounter Centre (FENZA) in Lusaka (Zambia) (Hinfelaar and Macola 2004, n.d.), and at Atiman House, Dar es Salaam, Tanzania (this was previously the archive of the Nyegezi Social Training Centre) (Brown and Brown 1969).

"At first, at the time of conception, pregnancy and birth, a person is not a personified being. He comes from a pool of beings that seems completely unpersonified and vague which is called Uzimu – Chimzimu. The human person will slowly depart from that stage of vagueness and show this beginning of a personality by certain signs – kuseka, kulankhula, kukwawa, etc, which are proper human activities" (Boucher notebook 20: 69, Kafukufuku Centre, KuNgoni, Mua, Malawi).

The author goes on to describe how these unpersonified, 'on-loan' beings could be reclaimed by the spirit world, and children were not considered full persons until they reached an age of about three months, when they were formally welcomed with a naming ceremony and exposure to the world outside of the home. A child would not be given a full human burial if s/he died before this coming out ceremony (see also van Breugel and Ott 2001: 84). It is to be expected that such on-loan beings were excluded from the parish record, meaning some neonatal and early infant mortality will be missed.<sup>40</sup> In this instance the qualitative record highlights differences between Catholic and Chewa ontological categories: juxtaposing the registers with the diaries and anthropological writings illuminates their gaps and silences, raising the potential for imputation and adjustment.

Second, diary entries can be revealing of the private discussions about sexuality and reproduction which conversion to Christianity engendered. For example, when a *nyau* dance was organised in Mua parish (Malawi) in May 1948, a woman asked her husband for permission to go, and the priest recounted the discussion in the mission diary:

"At night when she asked him permission to go to Lunguzi to the gettogether, it was not her beloved husband who stood up but a furious leopard, a man wounded in his honour. Impossible to tell the entire scene between the two, but we can summarise it like this: "I am Christian, I am not married to your mother, or to this one or that one, but to you before God. I will never allow that my wife went half naked to a dance with naked men. Songs, words and acts of rubbish! I have no fear of your mistresses of initiation, nor of Demons, no one. If you go to

<sup>&</sup>lt;sup>40</sup> The parallel with Scheper-Hughes' research on the perceived liminality of infants in the Brazilian favelas is clear (Scheper-Hughes 1985, 1992). In that work: "[t]he qualitative reading of missing data as one of the main source of information combined with the ethnographies of maternal practices resulted in the local understanding of the causes for the high infant mortality [sic]" (Bernardi and Hutter 2007: 552).

your orgy you will know that we can marry you to one of these goodfor-nothings. I will not be your husband. You will have broken what was uniting us.....". The woman answered: "Forgive me I will not go". She stayed in her hut. For the second time, the demons were defeated and the young women did not go to dance" (Mua Mission Diary May 1948: 214-5, translated from the French by Fr. Claude Boucher).

Such accounts detail how Christianity came to define moral discourses within sexual relationships. With enough data, this presents the possibility of understanding how ideational change happens in the context of a shifting hegemonic morality, and how cultural and individual cognition interplay to produce the demographic outcomes identified through quantitative reconstitution.

Third, the White Fathers occasionally commissioned Africa-wide ethnographic investigations in all of their parishes. For example, in the 1950s an "enquiry into the beliefs, manners and customs" of all tribes among whom the White Fathers worked was conducted at the behest of the headquarters in Rome. This enquiry followed a standardised schedule of 745 questions on aspects of social, domestic, and intellectual life, from birth, marriage, and sex to beliefs about the afterlife, witchcraft, magic, dress, food, customary law, and traditional authority.<sup>41</sup> Such structured enquiries permit comparative analysis at specific points in time, adding to the more subjective and variable recording in the missionary diaries.

Certainly, these qualitative data need to be treated critically, with awareness of how missionary attitudes may have changed over time, from attempting to reform and 'domesticate' traditional culture during the colonial period, to engaging with it in a process of Africanisation, syncretism, and 'inculturation' following Independence and Vatican II.<sup>42</sup> But these sources – combined with the quantitative data from the parish registers – offer rich insight into how moral demographies were created, deconstructed, and re-created in colonial Africa.

<sup>&</sup>lt;sup>41</sup> Copies of the enquiry are held in various archives, including the main White Fathers' Archives in Rome, as well as in local archives such as the Faith and Encounter Centre (FENZA), Lusaka, Zambia (e.g., accession number: 1-M-C-13).

<sup>&</sup>lt;sup>42</sup> Early missionaries condemned traditional custom; they later worked towards constructive methods of reform and incentive to persuade people into more Catholic moulds, and later still (following Vatican II) recognised that a sustainable Church needed to work through local culture, and to emphasise syncretism. The Church began to style itself as a 'custodian' of traditional culture and White Fathers established cultural centres and museums to preserve local customs; e.g., the Sukuma Museum at Bujora, Tanzania (Clement 1977); the Faith and Encounter Centre, Lusaka, Zambia; and the Chamare Museum and KuNgoni Centre of Culture and Art at Mua, Malawi (Boucher 2002, St-Arneault 2007).

#### **10.** Conclusion

The sociology of religious conversion and the study of demographic change have parallels, expressed through a shared vocabulary of diffusion, negotiation, and consciousness. Both fields describe how cultural and individual cognition interact in the context of a changing moral hegemony, often phrased in terms of 'modernity', and how that interaction produces measurable outcomes.

In 20th-century Africa, the two processes also intersected. The Church demanded change in African families and sexuality, and it judged part of its success in those terms: the number of 'satisfactory' Christians equated to the number of Christians living in stable, monogamous matrimony, attending church, bearing their children 'legitimately', and rearing them to do the same. This paper has explored how that intersection affects the measurability of demographic outcome, asking whether there is an inherent bias in trying to measure change by using sources created by agents of change, and whether Catholic sources will speak only of conforming Christians.

We find that missionaries were more intent on establishing a working knowledge of the states of souls in their parishes than they were in painting a picture of a happy Christendom. In their *libri status animarum* they recorded to the best of their ability and knowledge the actual circumstances of their parishioners. Furthermore, they documented in diaries, enquiries, letters, and monographs their observations about local cultures and how they were changing. None of these data were originally collected for demographic research. They have holes and biases. But weaknesses in the data can be corrected provided they are fully understood. Understanding comes from reading the stories behind the data, describing why people and events appear, and why and when they are hidden from view, and considering that selection 'bias' itself can become a point of departure and research (Watkins and Warriner 2003, Johnson-Hanks 2015). Such a mixed-methods approach describes the interplay between evidence and action, and between power and resistance, reading religion and reproduction within the wider landscapes of modernity and identity in 20th-century Africa (Johnson-Hanks 2006).

The parish registers of Africa exist in archives across the continent. They vary in quality, preservation, and content. Some may be more suited to demographic reconstruction than others, and all have their specific weaknesses and strengths. Methods cannot be limited to traditional family reconstitution because the problem of censoring is too great, the reconstitutable minority too unique, and the definition of family is too narrow. But with event history analysis, a mixed-methods approach, and sources like the East and Central African *libri status animarum*, they open the way to the 'long view' of population change in Africa, meaning that it may yet be possible to understand the African demographic present and future in the context of its own demographic pasts.

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## Appendix

## The Anglican and Presbyterian parish registers of Malawi

## Anglican

The three Anglican parishes on Likoma Island in Lake Malawi were established by the Universities Mission to Central Africa (UMCA), an Anglican missionary society founded by the Universities of Oxford, Cambridge, Durham, and Dublin following an appeal by David Livingstone in 1857. The mission had two core aims: to spread mission work into Central Africa and to fight the slave trade, which it did from its bases on Zanzibar and Likoma Islands, established in 1864 and 1886 respectively. Likoma was a gateway to the communities living around Lake Malawi, which missionaries accessed by steamship (Good 2004). The main UMCA archives are housed in Rhodes House in Oxford, but the parish registers remain in Malawi where they have undergone several transfers during the 20th century, as the diocesan headquarters moved to various centres on the mainland. These shifts in administration led to more general neglect of the archives at Likoma, and many of the original registers have been lost or severely damaged. There are gaps in the baptism register (the most complete series of all of the books) from 1904–1939, 1979–1984, and 1985–2000.

Of what remains of the Likoma archive, there are four points of interest which may have wider implications for the suitability of Anglican registers for historical demography in Africa. First, specific dates of birth were only irregularly recorded, especially before the 1970s: people were instead described as "adult" or "child". Imputing date of birth from date of baptism (as in historical demography based on Anglican records in England) is not an option in Africa, given the missionary context and variable age at baptism. Second, occupation was recorded (albeit intermittently) in the marriage records (unlike in the Catholic archives). Third, a 'person book' was kept (one item was found, containing people whose names began with 'L' - clearly the only surviving book of a whole series). The 'person book' contains life histories involving a series of dates and notes about the person's character, whereabouts (including migration and work histories), marriage, relationships, and death. If a complete series of such books exists in other UMCA parishes they may be of interest for micro-demographic work. Fourth, there is little cross-referencing between the registers, making the prospect for family reconstitution rather poor. Overall, these Anglican registers are unpromising, given the lack of birthdates and cross-referencing (Walters, Helleringer, and Masquelier 2013).

## Presbyterian

The Free Church of Scotland mission to Central Africa, established in Livingstone's name, began in 1875, first at the southern end of Lake Malawi at Cape MacClear and later at Khondowe in northern Malawi. The mission is famed for its educational and medical work, and credited with the "making of a new elite" (McCracken 2008: 147) which later went on to dominate the ranks of the Nyasaland African Congress and the post-colonial political class.

Given the focus on literacy and health, the popularity of the Livingstonia mission, and the extensive historical research that has been conducted using its archives, it is reasonable to expect well-preserved and thorough parish registers. Yet a visit to the archives in 2012 yielded little of use for demographic purposes. What remained were minute books which contained long lists of people baptised or married by date, but with no further information that might enable reconstitution of demographic rates (e.g., dates of birth, names of parents).<sup>43</sup>

<sup>&</sup>lt;sup>43</sup> A demographic study was attempted using school registers from Livingstonia, but potential for full reconstitution is limited (Fetter 1989).

Walters: Counting Souls: Towards an historical demography of Africa