

THE GEOGRAPHICAL DISTRIBUTION OF *ORNI-
THODORUS MOUBATA* (MURRAY, 1877).

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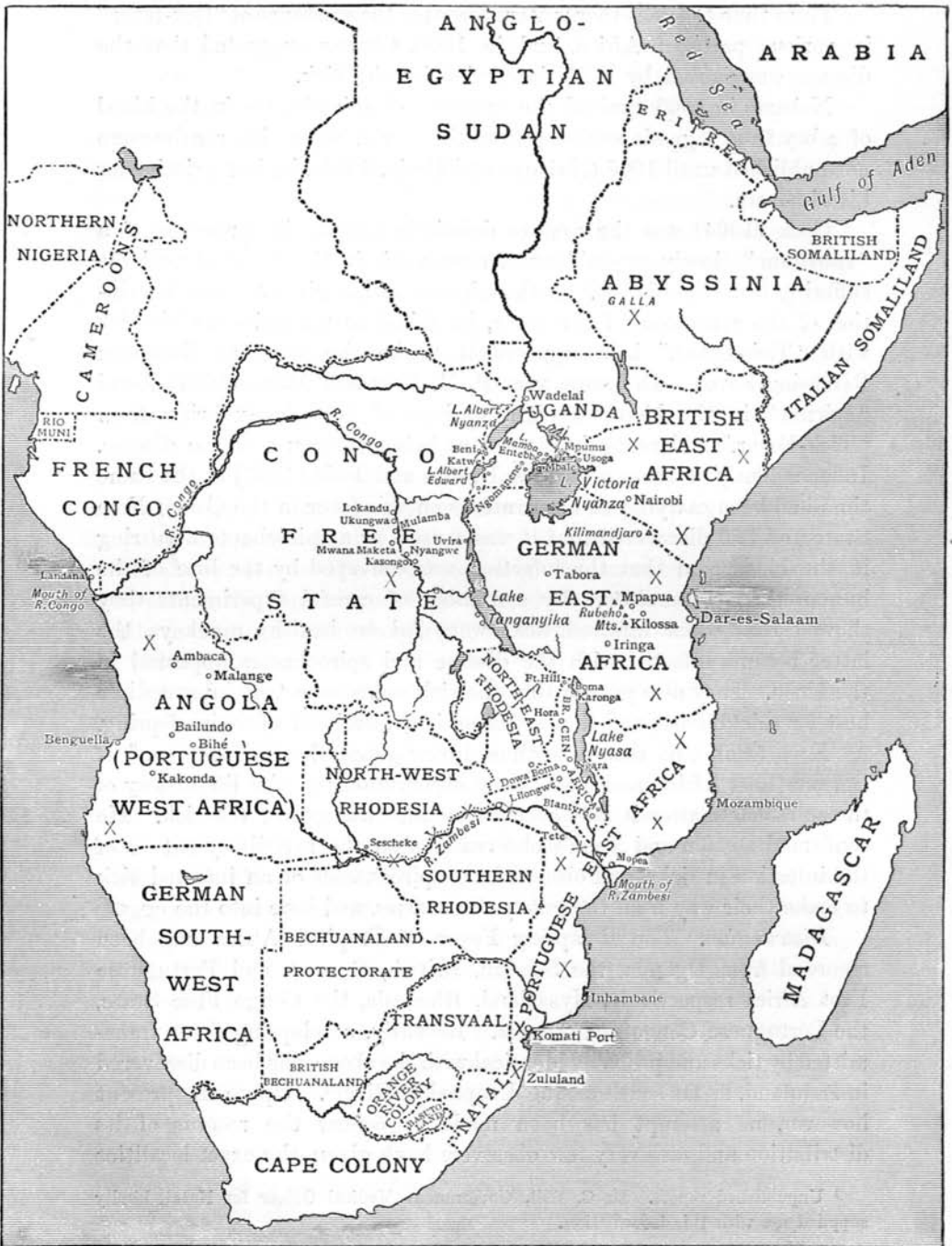
(From the Quick Laboratory, University of Cambridge.)

With a Map.

A PRECISE knowledge of the geographical distribution of *Ornithodoros moubata* is very desirable, as it bears directly upon the distribution of the Relapsing Fever of Tropical Africa. It therefore appears desirable to publish the accompanying map and a list of places showing the distribution of the tick. Both the map and the list are, however, of necessity far from perfect.

Although the number of States from which *O. moubata* has been recorded shows that the tick possesses a very wide distribution, the number of definitely recorded localities is small. It is therefore to be hoped that the empty appearance of the map may help to stimulate others to record *exact localities* relating to the distribution of *O. moubata*, and by so doing to augment our, at present, very meagre knowledge of the distribution of the tick. *O. moubata*, in general terms, may be said to extend southward from Lat. 10° N. and eastward from Long. 10° E., it is, however, from Uganda, the Congo Free State, British Central Africa and Portuguese West Africa that it is chiefly recorded. It occurs from Central Abyssinia to the Transvaal and Orange River Colony¹ in the East, across the Continent to the Congo, and from there southwards to German South-West Africa and the North of Cape Colony. It is

¹ Now known as Orange Free State.



Map showing the geographical distribution of *Ornithodoros moubata*.

Table showing the places from which *O. moubata* has been recorded, together with the name and date of the collector or reporter and the authority for the identification.

State	Locality	Collector or recorder	Date	Identifier
Abyssinia	Harar ...	A. Brumpt ...	v. 1901	Nuttall.
	Galla ...	" ...	1901	"
	Biacobaba ...	" ...	"	"
British E. Africa	Kilima-ndjaro ...	A. Brumpt ...	...	Nuttall.
	Pokamani (Wituland) ...	W. Dönitz ...	1906	Dönitz,
	Nairobi ...	P. H. Ross ...	x. 1908	Nuttall.
	" ...	H. G. Simpson	1907	Merriman.
	Usoga ...	Christy ...	1903	Nuttall.
Uganda	Wadelai ...	" ...	"	"
	Katwe ...	" ...	"	"
	Toru ...	" ...	"	"
	Mpumu (Chagwe) ...	P. H. Ross	(vi. 1909	"
	Mbale ...	H. G. Simpson	(x. 1909	"
	Entebbe ...	" ...	1907	Merriman.
	Bukoba ...	" ...	"	"
	Mengo ...	" ...	"	"
	Lake Mamba ...	" ...	"	"
	Ngomanene ...	" ...	"	"
	Mwagas Bugungu ...	E. D. W. Greig	1904	Neumaun (Brit. Mus.).
	Mengo ...	A. B. Cook ...	viii. 1908	Nuttall.
	Buda ...	Christy ...	1903	"
	Bussu ...	H. Bayon ...	x. 1909	"
	jinja ...	E. B. Haddon	x. 1906	"
Masaka ...	" ...	...	Robinson.	
German E. Africa	Dar-es-Salaam ...	R. Koch ...	1904	Neumann.
	Kilossa ...	" ...	"	"
	Mpapua ...	" ...	"	"
	Tringa ...	" ...	"	"
	Tabora ...	Dutton & Todd (Report)	1905	Newstead.
	Rubeho Mts. ...	R. Koch ...	1905	Neumann.
	Morago ...	" ...	...	Dönitz (Berlin Mus.).
	Teita ...	" ...	...	"
	Quange ...	" ...	...	"
	" ...	"	"

Portuguese E. Africa	Tete ...	Ex Daniels coll.	...	1905	Nuttall.
	" Mozambique	D. Livingstone (<i>Report</i>)	...	1857	—
	Inhambane	F. C. Wellman	...	1908	Nuttall.
	Komatani Port	C. W. Howard	...	vi. 1909	Howard.
	Mopea	"	...	...	"
	"	"	"
North-East Rhodesia	Near Chertekas, Luangwa River	S. A. Neave ¹	...	10. ix. 1910	Nuttall.
	Fort Jameson	"	...	ix. 1910	"
North-West Rhodesia	Sesheke	Sir John Kirk (<i>Tropical Diseases, Manson</i>)	...	1903	"
South Rhodesia	Mt. Chirinda (Melssetter Dist.) 3800 ft.	Swynnerton	...	viii. 1909	Nuttall.
British Central Africa	Lilongwe	C. W. Howard	...	vi. 1909	Nuttall.
Angoniland	"	Ex Daniels coll.	...	iii. 1907	"
Nyasaland	Blantyre	H. Hearsey	...	1908	"
	Ngara (Marimba Dist.)	E. H. A. Pask	...	x. 1909	"
	Dowa Boma	H. Hearsey	...	iii. 1909	"
	"	H. Hearsey	...	iii. 1909	"
	"	Ex Daniels coll.	...	1905	"
	Fort Hill	J. B. Davey	...	iv. 1909	"
	"	S. A. Neave ¹	...	vi. 1909	"
	Boma (Deep Bay)	"	...	x. 1909	"
	Karonga	"	...	vi. 1909	"
	Hora	H. S. Stannus	...	{ x. 1906	"
	Zomba	J. E. S. Old	...	{ vi. 1909	Neumann (Brit. Mus.).
	Bua River (Marimba Dist.)	H. S. Stannus ¹	...	viii. 1906	Nuttall.
Transvaal	Lydenburg	A. Edington	...	...	Neumann (Brit. Mus.).
Orange River Colony	Koffiefontein	Government Biologist	...	1906	Neumann.
Zanzibar	Zanzibar	E. Brumpt	...	...	Nuttall.
Cameroons	S. Lake Tchad	Clozel	...	...	Neumann.
French Congo	Loango	Foà	...	1901	Neumann.
Congo Free State	Myangwe	D. Livingstone (<i>Report</i>)	...	1874	Newstead.
	"	Dutton & Todd (<i>Report</i>)	...	1905	"
	Kasongo	"	...	"	"
	Lokandu	"	...	"	"
	Mulamba	"	...	"	"

¹ Collecting on behalf of the Entomological Committee (Tropical Africa) acting for the Colonial Office.

*Ornithodoros moubata*Table showing the places from which *O. moubata* has been recorded, etc. (continued).

State	Locality	Collector or recorder	Date	Identifier	
Congo Free State (cont.)	Ukungwa	Dutton & Todd (Report)	1905	Newstead.	
	Mwana Maketa	"	"	"	
	Piani-Iusani	"	"	"	
	Kabambare	"	"	"	
	Mifuso...	"	"	"	
	Albertville	"	"	"	
	Baudouinville	"	"	"	
	Mpala...	"	"	"	
	Lake Kabele	"	"	"	
	Katola ...	"	"	"	
	Popokabaka	"	"	"	
	Francis Joseph Falls	"	"	"	
	Kimpudi	"	"	"	
	Uvira ...	"	"	"	
	Rutschuru	"	"	"	
	Beni ...	"	"	"	
	Ponthierville	"	"	"	
	Kirundu	"	"	"	
	Mashi Kibangu	"	"	"	
	Fuma Lumbo	"	"	"	
	Muene Lubanda	"	"	"	
	Portuguese W. Africa	Ambaca...	D. Livingstone (Report)	1857	Nuttall.
		Bihé ...	F. C. Wellman	1908	"
Bailundo		"	"	"	
Kakonda		"	"	"	
Benguella		"	"	"	
Landana		"	"	"	
Malange		"	"	"	
Audulo ...		"	"	"	
Chiyaka		"	"	"	
Loraleiland		"	"	"	
Moxico ...		"	"	"	
Kuanza...		"	"	"	
		"	"	"	
		"	"	"	
	"	"	"		

Neumann (Brit. Mus.).

only recently that *O. moubata* has been distinguished, with certainty, from *O. savignyi* and therefore many of the older records are not to be relied on. The accompanying map only records those places (⊙) from which ticks have been received, or recorded, by trustworthy observers, the regions, denoted by the sign ×, are those in which it is practically certain that *O. moubata* does occur.

The appended list includes all the places from which *O. moubata* has been recorded. (It contains names of places which are not marked on the map because of their precise position being doubtful.) Wherever possible the list includes the names of the collectors, the date of the record and the authority by whom the specimens were identified. It comprises all the places mentioned by Nuttall and Warburton¹ (1908), and includes additional data relating to specimens received during the last two years at the Quick Laboratory, and information obtained through our correspondents—Prof. Dahl (Berlin Museum), Prof. Bouvier (Paris Museum), Prof. Newstead (Liverpool School of Tropical Medicine), Mr E. B. Haddon (Uganda), Mr L. E. Robinson (Watford), and Mr H. G. Simpson (Nairobi), to all of whom we are indebted for the information they have kindly supplied. I have moreover re-examined the specimens (determined as *O. savignyi* var. *caeca* by Prof. L. G. Neumann) which are in the British Museum.

¹ *Ticks*, Part I, pp. 52–54. The references to the literature will be found in this publication.