

## Species Data Dictionary

Taxonomic order<sup>1</sup> (though we only need a Complex -> Species -> Sub-Species structure in our dataset.):

Genus (Anopheles) -> Sub-Genus<sup>2</sup> -> Groups -> Sub-Groups -> Complex<sup>3</sup> -> Species -> Sub-Species

Column Name	Complex/Species/Sub-Species Name	Description	Description Source
<b>An gambiae_complex</b>	Anopheles gambiae (complex)	The complex consists of at least seven species of mosquitoes, including the most important vectors of malaria in sub-Saharan Africa.	<a href="#">Anopheles gambiae - Wikipedia</a>
<b>An gambiae ss</b>	Anopheles gambiae sensu stricto (s.s.) <sup>4</sup> (species)	A species included in the Anopheles gambiae Complex. It has 3 chromosomal forms (Mopti, Bamako, Savanna) and 2 molecular forms (M and S).	<a href="#">Anopheles gambiae - Wikipedia</a>
<b>SS M Form (An colluzzi or Mopti forms)</b>	Anopheles coluzzii (species) <sup>5</sup> or Mopti form of An gambiae s.s. (sub-species)	- Anopheles coluzzii is a species included in the Anopheles gambiae Complex. - Mopti form of An gambiae s.s. can be considered as a sub-species in terms of classification.	<a href="#">Anopheles gambiae - Wikipedia</a>  <a href="#">Spatial distribution of the chromosomal forms of anopheles gambiae in Mali   Malaria Journal   Full Text (biomedcentral.com)</a>
<b>SS S Form (savanah or Bamako forms)</b>	Savanna or Bamako form of An gambiae s.s. (sub-species)	Savanna and Bamako forms of An gambiae s.s. can be considered as sub-species in terms of classification.	<a href="#">Spatial distribution of the chromosomal forms of anopheles gambiae in Mali   Malaria Journal   Full Text (biomedcentral.com)</a>
<b>An arabiensis</b>	Anopheles arabiensis (species)	Anopheles arabiensis is a zoophilic species of mosquito and a vector of	<a href="#">Anopheles arabiensis - Wikipedia</a>

<sup>1</sup> Groups, Sub-Groups and Complexes are informal classifications.

<sup>2</sup> Most of species we got here are in Anopheles and Cella sub-genus.

<sup>3</sup> Species within a species complex are either morphologically identical or extremely similar and can only be reliably separated by microscopic examination of the chromosomes or DNA sequencing.

<sup>4</sup> s.s. is the latin abbreviation of sensu stricto, meaning "in the strict sense"

<sup>5</sup> We can consider it as sub-species for the ease of classifying.

		disease endemic to Africa. Also a species included in the Anopheles gambiae Complex.	
<b>An. melas</b>	Anopheles melas (species)	A species included in the Anopheles gambiae Complex.	<a href="#">Anopheles gambiae - Wikipedia</a>
<b>An. merus</b>	Anopheles merus (species)	A species included in the Anopheles gambiae Complex.	<a href="#">Anopheles gambiae - Wikipedia</a>
<b>An bwambiae</b>	Anopheles bwambiae (species)	A species included in the Anopheles gambiae Complex.	<a href="#">Anopheles gambiae - Wikipedia</a>
<b>An funestus s.l</b>	An funestus s.l. <sup>6</sup> (complex)	I am uncertain if this refers to the Group Funestus or Subgroup Funestus. Anyway in terms of classification, it is below subgenus and above species, so I marked it as a complex.	<a href="#">Taxonomy of Anopheles - Wikipedia</a>
<b>An funestus s.s. (specified)</b>	Anopheles funestus s.s. (species)	Seems to refer to the species first described in 1900 by Giles. Included in the Group Funestus, of course.	<a href="#">Anopheles funestus - Wikipedia</a>
<b>An rivulorum</b>	Anopheles rivulorum (species)	A species included in the Group Funestus. Malaria vector.	<a href="#">Reconsideration of Anopheles rivulorum as a vector of Plasmodium falciparum in western Kenya: some evidence from biting time, blood preference, sporozoite positive rate, and pyrethroid resistance   Parasites &amp; Vectors   Full Text (biomedcentral.com)</a>
<b>An leesoni</b>	Anopheles leesoni (species)	A species (or sub-species according to the article) included in the Group Funestus.	<a href="#">A New Subspecies of Anopheles Funestus Giles, from Southern Rhodesia: Annals of Tropical Medicine &amp; Parasitology: Vol 25, No 3-4</a>

---

<sup>6</sup> s.l. is the abbreviation for sensu lato; in the broad (loose) sense.

			<a href="http://tandfonline.com">tandfonline.com</a> )
<b>An parensis</b>	Anopheles parensis (species)	A species included in the Group Funestus.	<a href="#">Taxonomy of Anopheles - Wikipedia</a>
<b>An vaneedeni</b>	Anopheles vaneedeni (species)	A species included in the Group Funestus.	<a href="#">Taxonomy of Anopheles - Wikipedia</a>
<b>An nili s.l</b>	Nili (Complex)	Complex containing 4 species (these species appeared in the “Other sib species names” column). Some of them are Malaria vectors.	<a href="#">Taxonomy of Anopheles - Wikipedia</a>
<b>An moucheti s.l</b>	Anopheles moucheti (species)	Malaria vector. Has 3 sub-species.	<a href="#">Anopheles moucheti Evans, 1923   Walter Reed Biosystematics Unit (WRBU) (si.edu)</a>
<b>An pharoensis</b>	Anopheles pharoensis (species)	The type species (defining species) of the subgenus Cellia.	<a href="#">Anopheles pharoensis Theobald, 1901   Walter Reed Biosystematics Unit (WRBU)</a>
<b>An hancocki</b>	Anopheles hancocki (species)	Secondary vector of malaria.	<a href="#">[Ecology and Contribution of Anopheles hancocki Edwards, 1929 in Malaria Transmission in a Village of South Cameroon Forest Block] - PubMed (nih.gov)</a>
<b>An mascarensis</b>	Anopheles mascarensis (species)	Native and widely-distributed in Madagascar. Secondary Malaria vector.	<a href="#">[Anopheles mascarensis (De Meillon, 1947): main vector of malaria in the region of Fort-Dauphin (south-east of Madagascar)] - PubMed (nih.gov)</a>
<b>An marshalli</b>	Anopheles marshallii (species)	I am uncertain if it's referring to the group, complex, or species. Marked as specie for now.	<a href="#">Anopheles marshallii (Theobald, 1903)   Walter Reed Biosystematics Unit (WRBU) (si.edu)</a>
<b>An squamous</b>	Anopheles squamosus (species)	Can't find much information about this one.	<a href="#">Anopheles squamosus Theobald, 1901   Walter Reed Biosystematics Unit (WRBU) (si.edu)</a>

<b>An wellcomei</b>	Anopheles wellcomei (species)	Contains 3 sub-species.	<a href="#">Taxonomy of Anopheles - Wikipedia</a>
<b>An rufipes</b>	Anopheles rufipes (species)	Contains 2 sub-species. Important malaria vector in Cameroon.	<a href="#">Role of Anopheles (Cellia) rufipes (Gough, 1910) and other local anophelines in human malaria transmission in the northern savannah of Cameroon: a cross-sectional survey   Parasites &amp; Vectors   Full Text (biomedcentral.com)</a>
<b>An coustani s.l</b>	Anopheles coustani s.l. (complex)	Group containing several species (marked as complex). Secondary malaria vectors, but still effective, as suggested by some studies.	<a href="#">Differential contribution of Anopheles coustani and Anopheles arabiensis to the transmission of Plasmodium falciparum and Plasmodium vivax in two neighbouring villages of Madagascar   Parasites &amp; Vectors   Full Text (biomedcentral.com)</a>
<b>An ziemanni</b>	Anopheles ziemanni (species)	Species in Group coustani. Important local malaria vector.	<a href="#">Anopheles ziemanni a locally important malaria vector in Ndop health district, north west region of Cameroon   Parasites &amp; Vectors   Full Text (biomedcentral.com)</a>
<b>An paludis</b>	Anopheles paludism (species)	Species in Group coustani. Also an important local malaria vector.	<a href="#">[Anopheles paludis: important vector of malaria in Zaire] - PubMed (nih.gov)</a>