

Supplementary Materials:

Diversity, dynamics, direction, and magnitude of high-altitude migrating insects in the Sahel

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The Supplementary Materials include: Figures S1-S5, Tables S1 (List of identified insects from the project) and S2 (selected taxa: taxonomy and natural history).

Figure S1. Plates 1-15. 1: *Dysdercus* sp. (Pyrrhocoridae), 2: *Cysteochila endeca* Drake (Tingidae), 3: *Metacanthus nitidus* Štusák (Berytidae), 4-6: *Nephotettix modulatus* Melichar (Cicadellidae), 7: *Anopheles coluzzii* Coetzee & Wilkerson (male, Culicidae), 8: *Paederus sabaes* Erichson, 9: *Paederus fuscipes* Curtis (Staphylinidae), 10: *Zolotarevskyella rhytidera* (Chaudoir) (Carabidae), 11: *Chaetocnema coletta* Bechyn (Chrysomelidae), 12: *Hydrovatus* sp. (Dytiscidae), 13: *Berosus* sp. (Hydrophilidae), 14: *Microchelonus* sp. (Braconidae), 15: *Hypotrigona* sp. (Apidae). Ruler units are mm.



Plates 1-15. Selected species pictured with ruler; lines are 1mm. apart 1: *Dysdercus* sp., 2: *Cy. endeca*, 3: *M. nitidus*, 4-6: *N. modulatus*, 7: *A. coluzzii* (male), 8: *P. sabeus*, 9: *P. fuscipes*, 10: *Z. rhytidera*, 11: *Ch. coletta*, 12: *Hydrovatus* sp., 13: *Berosus* sp., 14: *Microchelonus* sp., 15: *Hypotrigona* sp.

Figure S2. L-shape distributions of the number of insects per panel (histogram) and kernel density function (line) for the selected taxa. Maximum value of the X-axis was truncated to 15 (some values were higher, see Max value, inset). N and Max denote the total and the maximum density/panel in 220 sticky nets.

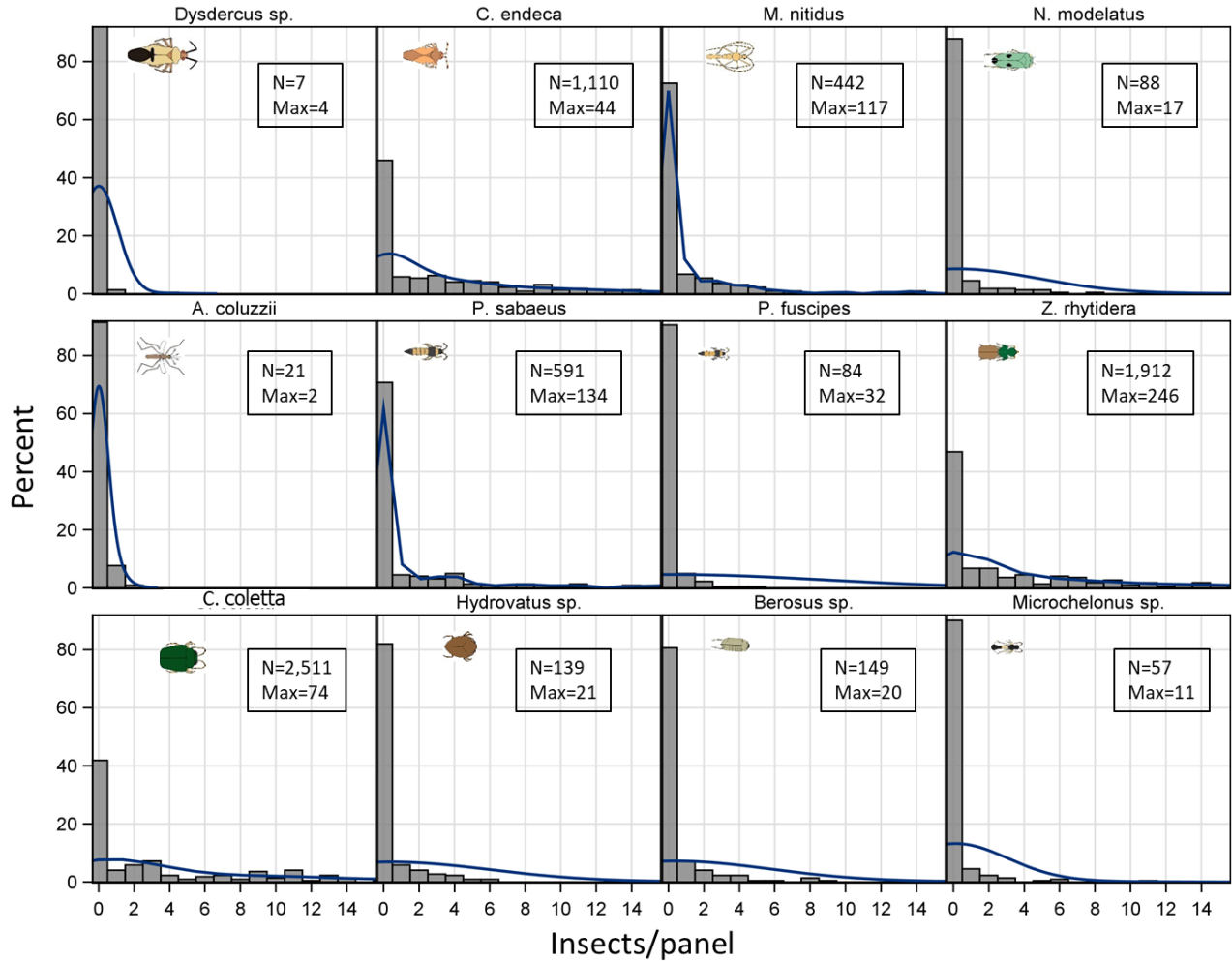


Figure S3. Seasonal variation in total-insect density/panel (note: sampling in 2013 ended in August). Inset: Relationship between panel density and aerial density (log scales). Pearson correlation coefficient (N reflects values larger than 0).

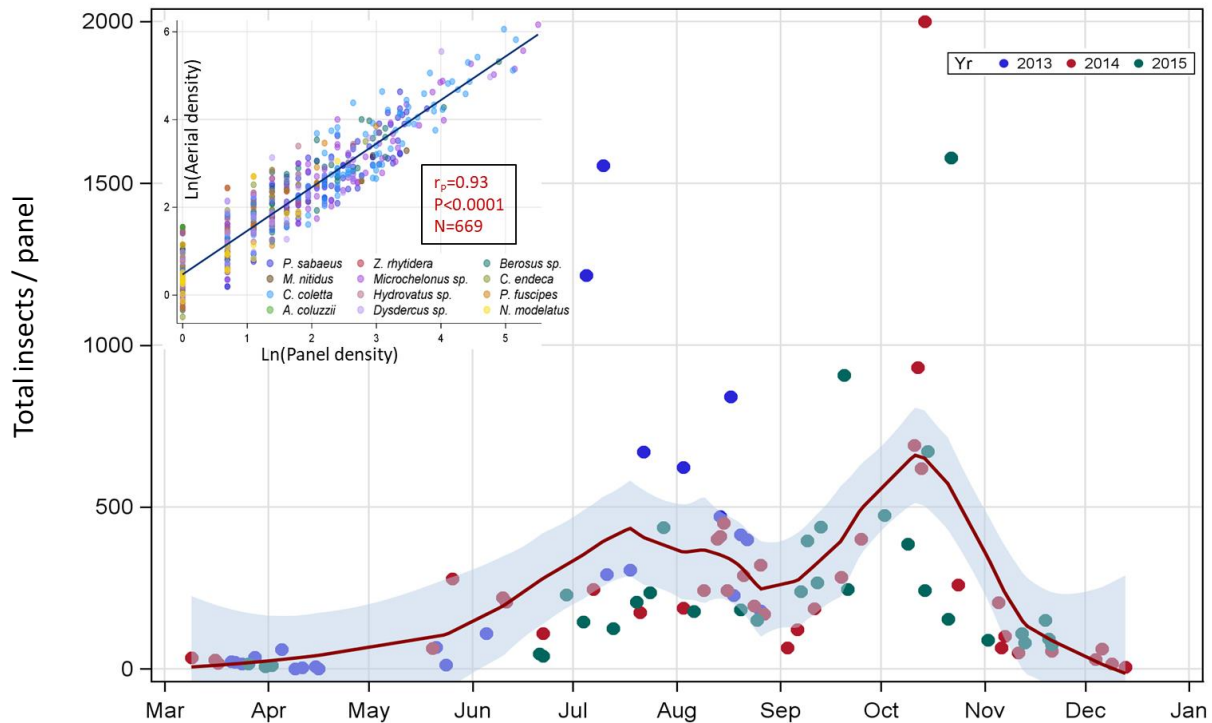


Figure S4. Distribution of mean nightly wind speed at flight height. Estimates are based on MERRA2 database and matched to the nearest panel altitude (50m, 70m and 200 m agl, see text from details).

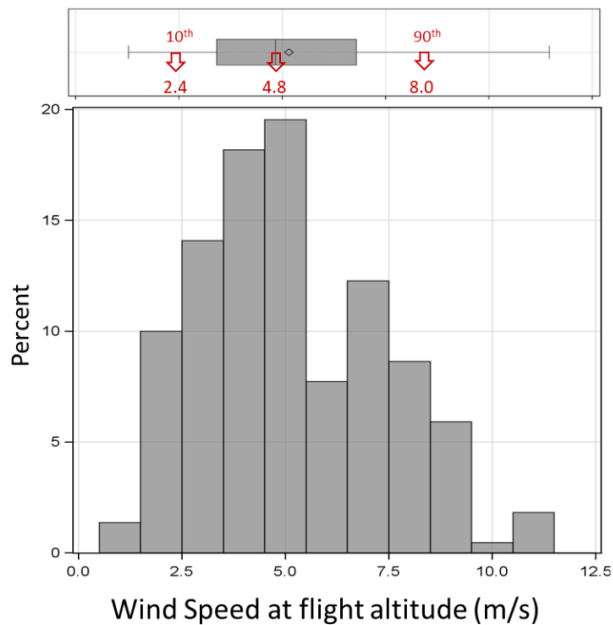


Figure S5: Weather conditions during high-altitude flight on the ground (red) and at flight height (blue) of each taxon. Weighted means (weighted by aerial density) and 95% CI on the ground and at flight height of (a) nightly temperature, (b) RH, and (c) wind speed are shown with corresponding wet season means (dashed lines labeled ‘W2m’ and ‘Air’) and year-round means at 2 m agl (dotted red lines labeled ‘Y2m’). Schematic insect silhouettes are not to scale.

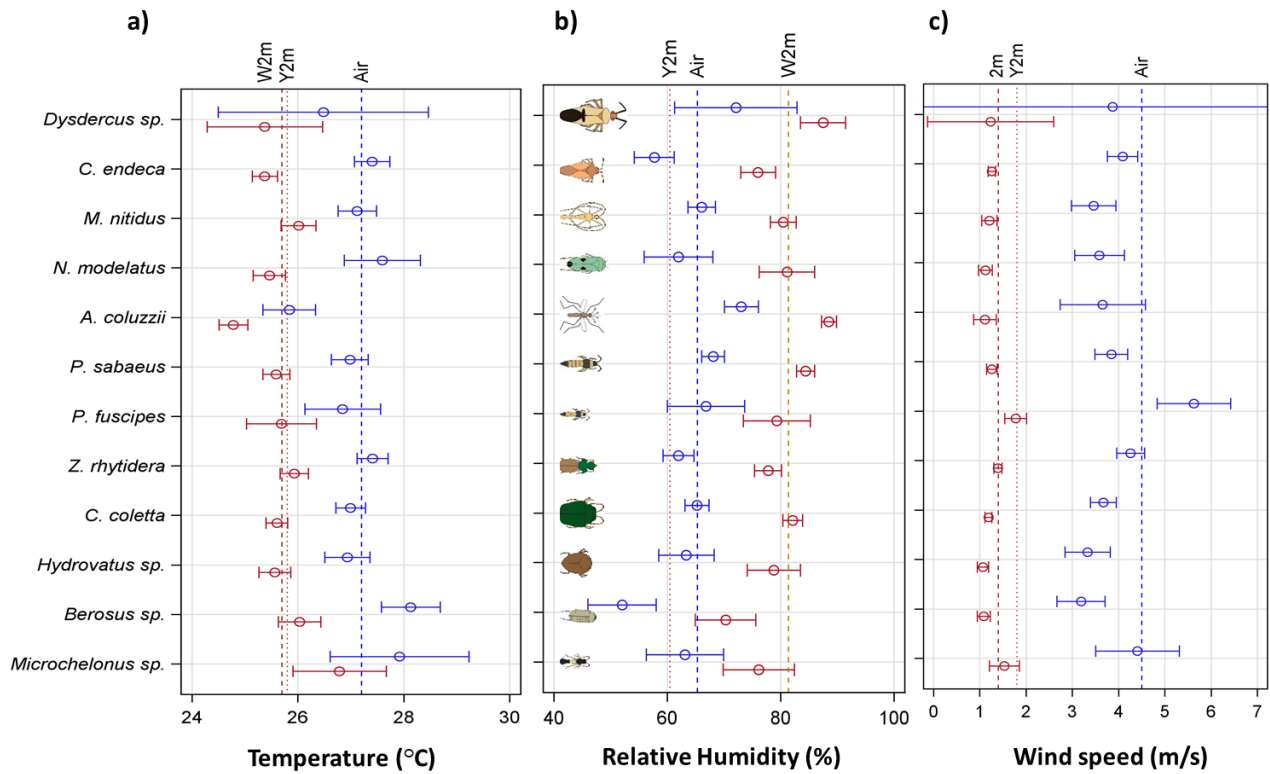


Table S1. List of identified insects from the project to-date.

Collection Site	Collection Date	Height (m)	TubelID	Orig	Order	suborder	superfamily	family	subfamily	tribe	genus	species	TaxonomistName
Markabougou, Mali	3-Aug-13		40	MB231A	Coleoptera	Adephaga	Caraboidea	Carabidae	Cicindelinae	Cicindelini	<i>Lophyra</i>	<i>senegalensis</i> (Dejean, 1831)	Schüle
Thierola, Mali (13.6	18-Aug-13		40	TB386	Coleoptera	Adephaga	Caraboidea	Carabidae	Harpalinae	Amblystomina	<i>Amblystomus</i>	<i>dispar</i> (Basilewsky, 1951)	Schüle
Thierola, Mali (13.6	21-Mar-13		40	TB204	Coleoptera	Adephaga	Caraboidea	Carabidae	Harpalinae	Amblystomina	<i>Amblystomus</i>	<i>katanganus</i> (Burgeon, 1831)	Schüle
Thierola, Mali (13.6	7-Sep-15		120	TB960B	Coleoptera	Adephaga	Caraboidea	Carabidae	Harpalinae	Amblystomina	<i>Amblystomus</i>	<i>latefasciatus</i> (Basilewsky, 1951)	Schüle
Suigima, Mali (14.1	21-May-13		40	SB111A	Coleoptera	Adephaga	Caraboidea	Carabidae	Harpalinae	Amblystomina	<i>Amblystomus</i>	<i>viridulus</i> (Erichson, 1843)	Schüle
Suigima, Mali (14.1	21-May-13		40	SB111A	Coleoptera	Adephaga	Caraboidea	Carabidae	Harpalinae	Chlaeniini	<i>Callistochrous</i>	<i>baxi</i> (Gory, 1833)	Schüle
Suigima, Mali (14.1	21-May-13		40	SB111A	Coleoptera	Adephaga	Caraboidea	Carabidae	Harpalinae	Harpalini	<i>Afromizonus</i>	<i>tecospilus</i> (Basilewsky, 1951)	Schüle
Suigima, Mali (14.1	21-May-13		40	SB111A	Coleoptera	Adephaga	Caraboidea	Carabidae	Harpalinae	Harpalini	<i>Egradroma</i>	<i>discriminatus</i> (Basilewsky, 1951)	Schüle
Suigima, Mali (14.1	21-May-13		40	SB111A	Coleoptera	Adephaga	Caraboidea	Carabidae	Harpalinae	Harpalini	<i>Platymetopus</i>	<i>tesselatus</i> (Basilewsky, 1951)	Schüle
Thierola, Mali (13.6	7-Sep-15		120	TB960A	Coleoptera	Adephaga	Caraboidea	Carabidae	Lebiinae	Lebiini	<i>Metadromius</i>	<i>royi</i> (Mateu, 1969)	Schüle
Thierola, Mali (13.6	21-Mar-13		40	TB204	Coleoptera	Adephaga	Caraboidea	Carabidae	Lebiinae	Lebiini	<i>Singilis</i>	<i>bedimo</i> (Anichtchenko, 2007)	Schüle
Suigima, Mali (14.1	21-May-13		40	SB111A	Coleoptera	Adephaga	Caraboidea	Carabidae	Lebiinae	Lebiini	<i>Syntomus</i>	<i>submaculatus</i> (Wollaston, 1854)	Schüle
Thierola, Mali (13.6	14-Aug-14		160	TB535B	Coleoptera	Adephaga	Caraboidea	Carabidae	Lebiinae	Odacanthini	<i>Lasiocera</i>	<i>nitidula</i> (Dejean, 1831)	Schüle
Thierola, Mali (13.6	7-Sep-15		120	TB960A	Coleoptera	Adephaga	Caraboidea	Carabidae	Lebiinae	Pentagoncini	<i>Pentagonica</i>	<i>elegans</i> (Peringuey, 1891)	Schüle
Thierola, Mali (13.6	7-Sep-15		120	TB960A	Coleoptera	Adephaga	Caraboidea	Carabidae	Trechinae	Bembidiini	<i>Polyderis</i>	<i>sp.</i>	Schüle
Suigima, Mali (14.1	21-Nov-14		160	SB574A	Coleoptera	Adephaga	Caraboidea	Carabidae	Trechinae	Bembidiini	<i>Sphaerotochys</i>	<i>tetraspilus</i> (Solsky, 1874)	Schüle
Markabougou, Mali (13.9128, -6.3425)				MB231A	Coleoptera	Adephaga	Dytiscoidea	Dytiscidae	Hydroporinae		<i>Hydrovatus</i>		Saverio Rocchi
Markabougou, Mali	20-Aug-13		40	MB255A-CO-2	Coleoptera	Adephaga	Dytiscoidea	Dytiscidae	Laccophilinae	Laccophilini	<i>Laccophilus</i>		Warren Steiner
Markabougou, Mali	13-Aug-14		190	MB395A-CO-2	Coleoptera	Adephaga	Dytiscoidea	Dytiscidae					Warren Steiner
Thierola, Mali (13.6	28-Oct-14		160	TB682A-CO-1	Coleoptera	Adephaga	Caraboidea	Carabidae	Brachininae	Brachinini	<i>Brachinus</i>	<i>prob. dorsalis</i> Dejean	Lourdes Chamorro
Thierola, Mali (13.6	4-Jul-15			TB820A	Coleoptera	Adephaga	Caraboidea	Carabidae	Lebiini	Lebiini	<i>Zolotarevskyella</i>	<i>prob. rhytidodera</i> (Csiki)	Lourdes Chamorro
Thierola, Mali (13.6	7-Sep-15		120	TB960A	Coleoptera	Adephaga	Caraboidea	Carabidae	Trechinae	Bembidiini	<i>Tachyura</i>	<i>biplagiatus</i> (Dejean, 1831)	Schüle
Thierola, Mali (13.6	7-Sep-15		120	TB960A	Coleoptera	Adephaga	Caraboidea	Carabidae	Trechinae	Bembidiini	<i>Tachyura</i>	<i>cf. vagans</i> (Peringuey, 1891)	Schüle
Thierola, Mali (13.6	7-Sep-15		120	TB960A	Coleoptera	Adephaga	Caraboidea	Carabidae	Trechinae	Bembidiini	<i>Tachyura</i>	<i>fumicata</i> (Motschulsky, 1806)	Schüle
Thierola, Mali (13.6	18-Aug-13		40	TB386	Coleoptera	Adephaga	Caraboidea	Carabidae	Trechinae	Bembidiini	<i>Tachyura</i>	<i>spec.</i>	Schüle
Suigima, Mali (14.1	7-Jul-14		40	SB286A-CO-8	Coleoptera	Adephaga	Caraboidea	Carabidae					Leonid Friedman
Thierola, Mali (13.6583, -7.2155)				TB669A	Coleoptera	Adephaga	Bostrichoidea	Bostrichidae					Laura Verú
Suigima, Mali (14.1	7-Jul-14		40	SB286A-CO-8	Coleoptera	Polyphaga	Chrysomeloidea	Brentidae	Galerucinae				Leonid Friedman
Thierola, Mali (13.6583, -7.2155)				TB21A-CO-1	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Bruchinae	Pachymerini	<i>Caryedon?</i>		Laura Verú
Thierola, Mali (13.6	13-Aug-14		190	TB533B-CO-5	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Bruchinae				Leonid Friedman
Markabougou, Mali	15-Oct-14			MB446A-CO-1	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Criocerinae				Lourdes Chamorro
Markabougou, Mali	20-Aug-13		40	MB255A-CO-2	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Eumolpinae				Lourdes Chamorro
Markabougou, Mali	7-Jul-14		120	MB320A	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Alticini	<i>Aphthona</i>	<i>laevissima</i> (Wollaston)	Maurizio Biondi
Markabougou, Mali	7-Jul-14		120	MB320A	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Alticini	<i>Aphthona</i>	<i>signatifrons</i> (Wollaston)	Maurizio Biondi
Markabougou, Mali	13-Aug-14		190	MB395B-CO-3	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Alticini	<i>Aphthona</i>	<i>whitfieldi</i> (Bryant)	Furth
Markabougou, Mali	7-Jul-14		120	MB320A	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Alticini	<i>Aphthona</i>	<i>whitfieldi</i> (Bryant)	Maurizio Biondi
Markabougou, Mali	14-Aug-14		190	MB398B	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Alticini	<i>Chaetocnema</i>	<i>coletta</i> (Bechyné)	Maurizio Biondi
Markabougou, Mali	24-Oct-14		120	MB474A	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Alticini	<i>Longitarsus</i>	<i>sp. 1</i>	Maurizio Biondi
Markabougou, Mali	7-Jul-14		120	MB320A	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Alticini	<i>Longitarsus</i>	<i>sp. 2</i>	Maurizio Biondi
Suigima, Mali (14.1	10-Aug-14		190	SB362A-CO-9	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Alticini			Maurizio Biondi
Markabougou, Mali	9-Aug-14		190	MB386A	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Luperini	<i>Afromaculepta</i>	<i>decemmaculata</i>	Thomas Wagner
Thierola, Mali (13.6	16-Mar-14		40	TB416A-CO-4	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Luperini	<i>Monolepta</i>	<i>sp. 1</i>	Furth
Thierola, Mali (13.6583, -7.2155)				TB392A-CO-3	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Luperini	<i>Monolepta</i>	<i>sp. 2</i>	Furth
Thierola, Mali (13.6	14-Oct-14		120	TB639A	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Luperini	<i>Monolepta</i>	<i>sp. 3</i>	Furth
Thierola, Mali (13.6	5-Jul-13		40	TB321A	Coleoptera	Polyphaga	Chrysomeloidea	Chrysomelidae	Galerucinae	Luperini	<i>Panafrorepta</i>	<i>dahlmani</i>	Thomas Wagner
Suigima, Mali (14.1	17-Aug-13		160	SB179A	Coleoptera	Polyphaga	Cucujoidea	Coccinellidae	Coccidulini				Shockley
Markabougou, Mali	15-Oct-14			MB446A-CO-2	Coleoptera	Polyphaga	Cucujoidea	Coccinellidae					Warren Steiner
Markabougou, Mali	13-Aug-14		190	MB395A-CO-2	Coleoptera	Polyphaga	Cucujoidea	Nitidulidae					Warren Steiner
Suigima, Mali (14.1	11-Sep-14		120	SB444A-CO-1	Coleoptera	Polyphaga	Cucujoidea	Phalacridae					Warren Steiner
Thierola, Mali (13.6	20-May-14			TB426B	Coleoptera	Polyphaga	Curculionoidea	Attelabidae	Rhynchitinae			<i>sp. 1</i>	Lourdes Chamorro
Markabougou, Mali	15-Aug-14		160	MB397A-CO-9	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Nanophyinae		<i>Nanophyes</i>	<i>poss. errans</i>	Lourdes Chamorro
Thierola, Mali (13.6	10-Aug-14		190	TB527A-CO-5	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Nanophyinae		<i>Nanophyes</i>	<i>sp. 1</i>	Lourdes Chamorro
Thierola, Mali (13.6	18-Aug-13		40	TB386A	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Nanophyinae		<i>Nanophyes</i>	<i>sp. 2</i>	Lourdes Chamorro
Suigima, Mali (14.1	11-Sep-14		120	SB444A-CO-6	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae				Lourdes Chamorro
Suigima, Mali (14.1	7-Sep-15			SB725	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Bagoinae		<i>Bagous</i>	<i>sp. 1</i>	Lourdes Chamorro
Thierola, Mali (13.6	16-Mar-14			TB418A	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Baridinae			<i>sp. 1</i>	Lourdes Chamorro
Thierola, Mali (13.6	17-Mar-14		120	TB420A	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Baridinae	Baridini	<i>Baris</i>	<i>picturatus</i>	Lourdes Chamorro
Suigima, Mali (14.1	21-Nov-16		160	SB574A-CO-11	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Baridinae			<i>sp. 3</i>	Lourdes Chamorro
Markabougou, Mali	22-Aug-13			MB262A	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Brachycerinae			<i>sp. 1</i>	Lourdes Chamorro
Suigima, Mali (14.1	7-Jul-14			SB288A	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Brachycerinae			<i>sp. 2</i>	Lourdes Chamorro
Thierola, Mali (13.6	7-Sep-15			TB960A	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Brachycerinae			<i>sp. 3</i>	Lourdes Chamorro
Suigima, Mali (14.1	20-Jul-15		190	SB662A	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Ceutorhynchinae	Ceutorhynchini	<i>Nr. Neocoeliodes</i>	<i>sp. 1</i>	Lourdes Chamorro

Thierola, Mali (13.6	13-Nov-15	120 TB1095A-CO-17	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Conoderinae		<i>Lobotrachelus</i>	sp. 1	Lourdes Chamorro
Thierola, Mali (13.6	6-Sep-14	190 TB593A-CO-19	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Curculioninae	Ochrymerini	<i>Endaeus</i>	sp. 1	Lourdes Chamorro
Suigima, Mali (14.1	10-Jul-13	120 SB127A-CO-5	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Curculioninae	Rhamphini		sp. 1	Lourdes Chamorro
Thierola, Mali (13.6	5-Jul-13	40 TB321A	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Curculioninae	Smicronychini	<i>Afrosmicronyx dorsomaculatus</i> (Julien F		Lourdes Chamorro
Markabougou, Mali	26-Mar-15	190 MB544A-CO-6	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Curculioninae	Smicronychini	<i>Afrosmicronyx umbrinus</i>		Lourdes Chamorro
Thierola, Mali (13.6	9-Mar-14	160 TB397A	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Curculioninae	Smicronychini	<i>Sharpia bella</i>		Lourdes Chamorro
Suigima, Mali (14.1	7-Jul-14	160 SB288A	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Curculioninae	Smicronychini	<i>Smicronyx gossypii</i> (Haran)		Lourdes Chamorro
Markabougou, Mali	15-Aug-14	160 MB397A-CO-8	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Curculioninae	Smicronychini	<i>Smicronyx zambianus n. sp.</i> (Hara		Julien Haran & Lo
Suigima, Mali (14.1	22-May-13	160 SB113A-CO-7	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Lixinae	Lixini	<i>Microlarinus</i>	sp.	Lourdes Chamorro
Suigima, Mali (14.1666, -7.2332)											Laura Veru
Markabougou, Mali	13-Aug-14	190 MB395A-CO-8	Coleoptera	Polyphaga	Curculionoidea	Curculionidae					Lourdes Chamorro
Markabougou, Mali	22-Aug-13	MB262A	Coleoptera	Polyphaga	Curculionoidea	Erorhinidae	Erihrininae			sp. 1	Lourdes Chamorro
Markabougou, Mali	7-Jul-14	MB319A	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae			#1 female	Lourdes Chamorro
Thierola, Mali (13.6	5-Jul-13	TB322C	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae			#1 male	Lourdes Chamorro
Markabougou, Mali	25-Sep-14	MB429E	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae			#2 female	Lourdes Chamorro
Thierola, Mali (13.6	5-Jul-13	TB322A	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae			#2 male	Lourdes Chamorro
Thierola, Mali (13.6	11-Oct-14	TB630A	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae			#3	Lourdes Chamorro
Thierola, Mali (13.6	11-Oct-14	TB630A	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae			#4	Lourdes Chamorro
Thierola, Mali (13.6	21-Jul-14	TB502B	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae			#5	Lourdes Chamorro
Markabougou, Mali	24-Oct-14	MB474A	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae			#6	Lourdes Chamorro
Thierola, Mali (13.6	7-Jul-14	TB463D	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae			#7	Lourdes Chamorro
Markabougou, Mali	7-Jul-14	MB319A	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae			#8	Lourdes Chamorro
Thierola, Mali (13.6	22-Oct-15	TB1056B	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae		<i>Conapium</i> #1		Lourdes Chamorro
Thierola, Mali (13.6	22-Oct-15	TB1056B	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae		<i>Conapium</i> #2		Lourdes Chamorro
Markabougou, Mali	7-Jul-14	MB319A	Coleoptera	Polyphaga	Curculionoidea	Curculionidae	Curculioninae			sp. 1	Lourdes Chamorro
Thierola, Mali (13.6	7-Jul-14	TB463D	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae	Piezotrachelini		#1	Lourdes Chamorro
Markabougou, Mali	26-Aug-13	MB272A	Coleoptera	Polyphaga	Curculionoidea	Brentidae	Apioninae	Pizeotrachelini		#2	Lourdes Chamorro
Markabougou, Mali	15-Aug-14	160 MB397A-CO-1	Coleoptera	Polyphaga	Elateroidea	Elateridae					Warren Steiner/Lc
Suigima, Mali (14.1	11-Sep-14	120 SB444A-CO-1	Coleoptera	Polyphaga	Hydrophiloidea	Hydrophilidae	Hydrophilinae	Berosini	<i>Berosus</i>		Warren Steiner
Markabougou, Mali	15-Aug-14	160 MB397A-CO-1	Coleoptera	Polyphaga	Hydrophiloidea	Hydrophilidae					Warren Steiner
Thierola, Mali (13.6	3-Aug-14	TB512A-CO-2	Coleoptera	Polyphaga	Scarabaeoidea	Scarabaeidae					Lourdes Chamorro
Markabougou, Mali	13-Aug-14	190 MB395A-CO-2	Coleoptera	Polyphaga	Staphylinoidea	Staphilinidae	Pselaphinae				Warren Steiner
Suigima, Mali (14.1	10-Aug-14	190 SB362A-CO-9	Coleoptera	Polyphaga	Staphylinoidea	Staphylinae					Leonid Friedman
Suigima, Mali (14.1	19-Jul-14	90 SB326A-CO-1	Coleoptera	Polyphaga	Staphylinoidea	Staphilinidae	Aleocharinae	Lomechusini	<i>Diplopleurus</i>		Dr. Jan Klimashev
Thierola, Mali (13.6	13-Aug-14	160 TB532A-CO-1	Coleoptera	Polyphaga	Staphylinoidea	Staphilinidae	Aleocharinae	Lomechusini	<i>Paramyrmococia bipustulata</i>		Dr. Jan Klimashev
Thierola, Mali (13.6	05-Aug-13	160 TB374A-CO-3	Coleoptera	Polyphaga	Staphylinoidea	Staphilinidae	Aleocharinae	Lomechusini	<i>Zyras (Ctenodonia)</i>		Dr. Jan Klimashev
Thierola, Mali (13.6	13-Aug-14	160 TB532A-CO-1	Coleoptera	Polyphaga	Staphylinoidea	Staphilinidae	Paederinae	Paederini	<i>Paederus fuscipes</i> (Curtis)		Dr. Frank
Suigima, Mali (14.1	06-Sep-14	190 SB431A-CO-1	Coleoptera	Polyphaga	Staphylinoidea	Staphilinidae	Paederinae	Paederini	<i>Paederus sabaeus</i> (Erichson)		Dr. Frank
Thierola, Mali (13.6	13-Aug-14	160 TB532A-CO-1	Coleoptera	Polyphaga	Staphylinoidea	Staphilinidae	Paederinae	Paederini	<i>Paederus</i>		Dr. Frank
Thierola, Mali (13.6	13-Aug-14	160 TB532A-CO-1	Coleoptera	Polyphaga	Staphylinoidea	Staphilinidae	Staphylininae	Staphylinini	<i>Gabronthus maritimus</i> (Motschulsky)		Dr. Frank
Thierola, Mali (13.6	14-Sep-14	160 TB616A-CO-1	Coleoptera	Polyphaga	Staphylinoidea	Staphilinidae	Staphylininae	Staphylinini	<i>Gabronthus</i>		Dr. Frank
Markabougou, Mali	10-Jul-13	120 MB214A-CO-3	Coleoptera	Polyphaga	Staphylinoidea	Staphilinidae	Staphylininae	Staphylinini	<i>Philonthus</i>		Dr. Frank
Thierola, Mali (13.6	10-Aug-14	190 TB527A-CO-6	Coleoptera	Polyphaga	Tenebrionoidea	Aderidae					Warren Steiner
Suigima, Mali (14.1	11-Sep-14	120 SB444A-CO-7	Coleoptera	Polyphaga	Tenebrionoidea	Anthicidae					Warren Steiner
Markabougou, Mali (13.9128, -6.3425)											Laura Veru
Markabougou, Mali	10-Jul-13	120 MB214A-DI-2	Diptera	Brachycera	Carnoidea	Chloropidae			<i>Epimadiza</i>		Amnon Freidberg
Suigima, Mali (14.1	10-Aug-14	190 SB362A-DI-1	Diptera	Brachycera	Carnoidea	Chloropidae					John Ismay
Markabougou, Mali	14-Aug-13	160 MB242A-DI-3	Diptera	Brachycera	Carnoidea	Milichiidae	Madizinae		<i>Phyllomyza</i>		Amnon Freidberg
Thierola, Mali (13.6583, -7.2155)									<i>Diopsis</i>		
Markabougou, Mali	14-Aug-14	190 MB398A-DI-3	Diptera	Brachycera	Empidoidea	Dolichopodidae					Igor Grichanov
Markabougou, Mali	13-Aug-14	160 MB394B-DI-3	Diptera	Brachycera	Ephydroidea	Curtonotidae			<i>Curtonotum</i>	<i>saheliense</i> Tsacas, 1977	Ashley Kirk-Sprigg
Thierola, Mali (13.6	6-Sep-14	160 TB593A-DI-5	Diptera	Brachycera	Ephydroidea	Drosophilidae	Steganinae	Steganini	<i>Leucophenga</i>		Amnon Freidberg
Thierola, Mali (13.6	13-Aug-14	190 TB533A-DI-4	Diptera	Brachycera	Ephydroidea	Drosophilidae					Shane McEvey
Markabougou, Mali	7-Nov-14	160 MB493A-DI-2	Diptera	Brachycera	Ephydroidea	Ephydridae	Discomyzinae	Psilopini	<i>Psitola</i>		Amnon Freidberg
Thierola, Mali (13.6	6-Sep-14	160 TB593A-DI-4	Diptera	Brachycera	Ephydroidea	Ephydridae	Hydrellinae		<i>Notiphila</i>		Amnon Freidberg
Markabougou, Mali	10-Jul-13	120 MB214A-DI-1	Diptera	Brachycera	Ephydroidea	Ephydridae					Tadeusz Zatwarni
Markabougou, Mali	19-Jul-14	190 MB353A-DI-1	Diptera	Brachycera	Lauxanioidae	Lauxaniidae					Stephen Gaimari
Thierola, Mali (13.6	13-Aug-14	190 TB533B-DI-4	Diptera	Brachycera	Muscoidea	Anthomyiidae					Verner Michelsen
Markabougou, Mali	14-Aug-13	40 MB240A-DI-4	Diptera	Brachycera	Muscoidea	Muscidae	Muscinae	Muscini	<i>Musca</i>		Amnon Freidberg
Markabougou, Mali	14-Aug-13	40 MB240A-DI-4	Diptera	Brachycera	Muscoidea	Muscidae	Muscinae	Stomoxyni			Amnon Freidberg
Markabougou, Mali	14-Aug-14	190 MB398A-DI-2	Diptera	Brachycera	Muscoidea	Muscidae	Phaoniinae	Atherigonini	<i>Atherigona</i>		Burgert Muller
Markabougou, Mali	14-Aug-13	40 MB240A-DI-4	Diptera	Brachycera	Muscoidea	Muscidae					Marcia Couri
Markabougou, Mali	22-Aug-13	40 MB261A-DI-1	Diptera	Brachycera	Oestroidea	Calliphoridae	Chrysomyiinae	Rhiniini	<i>Rhynchomyia</i>		Amnon Freidberg

Markabougou, Mali	14-Aug-13	40 MB240A-DI-2	Diptera	Brachycera	Oestroidea	Calliphoridae	Chrysomyiinae	Rhiniini			Amnon Freidberg
Markabougou, Mali	14-Aug-13	160 MB242A-DI-3	Diptera	Brachycera	Oestroidea	Rhiniidae					Knut Rognes
Markabougou, Mali	14-Aug-13	40 MB240A-DI-4	Diptera	Brachycera	Oestroidea	Tachinidae					Pierfilippo Cerretti
Suigima, Mali (14.1	19-Jul-14	90 SB326A-DI-1	Diptera	Brachycera	Platyezoidea	Phoridae					Amnon Freidberg
Markabougou, Mali	10-Jul-13	120 MB214A-DI-1	Diptera	Brachycera	Sciomyzoidea	Sepsidae					Andrey Ozerov
Thierola, Mali (13.6	13-Aug-14	160 TB532A-DI-1	Diptera	Brachycera	Syrphoidea	Pipunculidae					Marc De Meyer
Thierola, Mali (13.6	13-Aug-14	190 TB533B-DI-3	Diptera	Brachycera	Tephritoidea	Lonchaeidae	Lonchaeinae			Silba	Amnon Freidberg
Thierola, Mali (13.6	24-Aug-14	190 TB563B-DI-4	Diptera	Brachycera	Tephritoidea	Platystomatidae					Andrew Whittington
Thierola, Mali (13.6	6-Sep-14	160 TB593A-DI-4	Diptera	Brachycera	Tephritoidea	Tephritidae	Dacinae	Ceratidini		Ceratitis	Marc De Meyer
Markabougou, Mali	14-Aug-13	160 MB242A-DI-4	Diptera	Brachycera	Tephritoidea	Ulidiidae	Ulidiinae	Ulidiini		Physiphora	Elena Kameneva
Thierola, Mali (13.6	13-Aug-14	160 TB532B-DI-1	Diptera	Nematocera	Chironomoidea	Ceratopogonidae					Amnon Freidberg
Markabougou, Mali	14-Aug-13	160 MB242A-DI-2	Diptera	Nematocera	Chironomoidea	Chironomidae					Torbjorn Ekrem
Thierola, Mali (13.6	7-Jul-14	120 TB461A	Diptera	Nematocera	Culicomorpha	Simuliidae	Simuliinae			Simulium	griseicolle
Thierola, Mali (13.6	6-Sep-14	190 TB593A	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Leptodelphax	maculigera
Thierola, Mali (13.6	17-Oct-14	190 TB650A	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Perkinsiella	dorsata
Thierola, Mali (13.6	9/14/2014	160 TB616A	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Sogatella	albofimbriata
Markabougou, Mali (13.9128, -6.3425)		MB395B-HO-5	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Sogatella	cf. albofimbriata
Thierola, Mali (13.6	20-Aug-13	120 TB393A-HO-2	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Sogatella	cf. furcifera
Thierola, Mali (13.6	14-Sep-14	160 TB616A	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Sogatella	nigeriensis
Thierola, Mali (13.6583, -7.2155)		TB462C	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Sogatella	vibex
Thierola, Mali (13.6583, -7.2155)		TB616A-HO-3	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Sogatella	
Thierola, Mali (13.6	13-Aug-14	190 TB533A	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Thriambus	strennus
Thierola, Mali (13.6	13-Aug-14	190 TB533A	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Toya	ceresensis
Thierola, Mali (13.6	14-Sep-14	160 TB616A	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Toya	tuberculosa
Thierola, Mali (13.6583, -7.2155)		TB527A-HO-1	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini			
Thierola, Mali (13.6	6-Sep-14	160 TB593A-HO-8	Hemiptera	Auchenorrhyncha	Fulgoroidea	Delphacidae	Delphacinae	Delphacini		Stenocranus	
Thierola, Mali (13.6583, -7.2155)		TB426A	Hemiptera	Auchenorrhyncha	Fulgoroidea	Flatidae					Charles Bartlett
Thierola, Mali (13.6583, -7.2155)		TB650A	Hemiptera	Auchenorrhyncha	Fulgoroidea	Ricaniidae					Charles Bartlett
Thierola, Mali (13.6	13-Aug-14	160 TB532B	Hemiptera	Auchenorrhyncha	Membracoidea	Cicadellidae	Deltocephalinae	Chiasmini		Exitianus	distanti
Thierola, Mali (13.6 3-Aug-14		TB512A-HO-1	Hemiptera	Auchenorrhyncha	Membracoidea	Cicadellidae	Deltocephalinae	Chiasmini		Exitianus	
Markabougou, Mali	7-Nov-14	160 MB493A	Hemiptera	Auchenorrhyncha	Membracoidea	Cicadellidae	Deltocephalinae	Chiasmini		Nephotettix	modulatus
Thierola, Mali (13.6583, -7.2155)		TB752A-HO-4	Hemiptera	Auchenorrhyncha	Membracoidea	Cicadellidae	Deltocephalinae	Chiasmini		Nephotettix	cf. modulatus
Thierola, Mali (13.6	13-Aug-14	190 TB533A-HO-1	Hemiptera	Auchenorrhyncha	Membracoidea	Cicadellidae	Deltocephalinae	Paralimnini		Psammotettix	
Thierola, Mali (13.6	24-Aug-14	190 TB563A	Hemiptera	Auchenorrhyncha	Membracoidea	Cicadellidae	Deltocephalinae	Paralimnini			James Zahniser
Thierola, Mali (13.6583, -7.2155)		TB650A	Hemiptera	Auchenorrhyncha	Membracoidea	Cicadellidae	Deltocephalinae	Vartini?			Charles Bartlett
Thierola, Mali (13.6583, -7.2155)		TB688A	Hemiptera	Auchenorrhyncha	Membracoidea	Cicadellidae					Charles Bartlett
Thierola, Mali (13.6	17-Oct-14	190 TB650A	Hemiptera	Heteroptera	Cimicoidea	Nabidae					Carsten Morkel
Thierola, Mali (13.6	14-Oct-15	120 TB1035A	Hemiptera	Heteroptera	Coreoidea	Rhopalidae					Carsten Morkel
Thierola, Mali (13.6	13-Aug-14	190 TB533B-HE-1	Hemiptera	Heteroptera	Coreoidea	Stenocephalidae				Dicranocephalus	Thomas Henry
Thierola, Mali (13.6583, -7.2155)		TB533A-HO-4	Hemiptera	Heteroptera	Corixoidea	Corixidae					Charles Bartlett
Thierola, Mali (13.6583, -7.2155)		TB534A	Hemiptera	Heteroptera	Gerroidea	Gerridae	Trepobatinae				
Thierola, Mali (13.6	5-Nov-14	160 TB688A	Hemiptera	Heteroptera	Gerroidea	Gerridae					Carsten Morkel
Thierola, Mali (13.6	19-Sep-14	120 TB627A	Hemiptera	Heteroptera	Gerroidea	Veliidae	Microveliinae	Microveliini		Microvelia	sp.
Thierola, Mali (13.6	13-Aug-14	160 TB532A-PH-1	Hemiptera	Heteroptera	Hydrometroidea	Hydrometridae	Hydromerinae			Hydrometra	
Thierola, Mali (13.6	10-Aug-14	190 TB527A-HE-2	Hemiptera	Heteroptera	Lygaeoidea	Berytidae	Metacanthinae	Metacanthini		Metacanthus	nitidus
Thierola, Mali (13.6	24-Aug-14	190 TB563A-HE-4	Hemiptera	Heteroptera	Lygaeoidea	Berytidae	Metacanthinae			Yemma	Tatina Novoselsky
Thierola, Mali (13	19-Sep-14	190 TB629A	Hemiptera	Heteroptera	Lygaeoidea	Lygaeidae	Geocorinae			Geocoris	aff. erytrops
Markabougou, Mali	19-Jul-14	190 MB353A-HE-5	Hemiptera	Heteroptera	Lygaeoidea	Lygaeidae	Orsillinae	Nysiini		Nysius	Thomas Henry
Suigima, Mali (14.1	24-Oct-14	190 SB488A-HE-3	Hemiptera	Heteroptera	Lygaeoidea	Lygaeidae	Rhyparochromina	Drymini		Stilbocoris	Tatina Novoselsky
Suigima, Mali (14.1	24-Oct-14	120 SB486A-HE-2	Hemiptera	Heteroptera	Lygaeoidea	Lygaeidae					Thomas Henry
Thierola, Mali (13.6	24-Aug-14	190 TB563A-HE-4	Hemiptera	Heteroptera	Lygaeoidea	Oxycarenidae				Camptotelus	Tatina Novoselsky
Thierola, Mali (13.6	13-Aug-14	160 TB532A-HE-1	Hemiptera	Heteroptera	Lygaeoidea	Phypharochromida	Rhyparochromina	Rhyparochromini		Beosus	Tatina Novoselsky
Thierola, Mali (13.6	14-Oct-15	120 TB1035A	Hemiptera	Heteroptera	Lygaeoidea	Rhyparochromida	Rhyparochromina	Myodochini		cf. Paromius	Carsten Morkel
Thierola, Mali (13.6	14-Oct-15	120 TB1035A	Hemiptera	Heteroptera	Lygaeoidea	Rhyparochromida	Rhyparochromina	Myodochini		Paromius	gracilis
Suigima, Mali (14.1	24-May-13	40 SB120A	Hemiptera	Heteroptera	Lygaeoidea	Rhyparochromida	Rhyparochromina	Ozophorini		Ethaltomarus	glabrosus (Scudder)
Markabougou, M	21-Jul-14	190 MB359A	Hemiptera	Heteroptera	Lygaeoidea	Rhyparochromida	Rhyparochromina	Stygnocorini		cf. Lasiosomus	sp.
Suigima, Mali (14.1	19-Jul-14	120 SB327A-HE-2	Hemiptera	Heteroptera	Lygaeoidea	Rhyparochromida					Thomas Henry
Thierola, Mali (13	19-Sep-14	190 TB629A	Hemiptera	Heteroptera	Miroidea	Miridae					Andreas Krüger
Thierola, Mali (13	14-Aug-14	160 TB535B	Hemiptera	Heteroptera	Notonectoidea	Notonectidae	Anisopinae			Anisops	spec.
Markabougou, Mali (13.9128, -6.3425)		MB261A-HO-4	Hemiptera	Heteroptera	Notonectoidea	Notonectidae					Charles Bartlett
Suigima, Mali (14.1	24-Oct-14	190 SB488A-HE-3	Hemiptera	Heteroptera	Pentatomoidea	Cydniidae	Cydniidae	Geotomini		Dallasiellus	discrepans

Suigima, Mali (14.1	24-Oct-14	120 SB486A-HE-1	Hemiptera	Heteroptera	Pentatomoidea	Cydnidae	Cydninae	Geotomini	<i>Aethus</i>		Thomas Henry
Suigima, Mali (14.1	14-Oct-15	120 SB795A	Hemiptera	Heteroptera	Pentatomoidea	Cydnidae					Carsten Morkel
Suigima, Mali (14.1	24-Oct-14	120 SB486A-HE-3	Hemiptera	Heteroptera	Pentatomoidea	Pentatomidae	Pentatominae	Antestini	<i>Adria</i>	<i>parvula</i>	Thomas Henry
Suigima, Mali (14.1	14-Oct-15	120 SB795A	Hemiptera	Heteroptera	Pentatomoidea	Pentatomidae					Carsten Morkel
Thierola, Mali (13.6	14-Jul-14	190 TB484A	Hemiptera	Heteroptera	Pyrrhocoroidea	Pyrrhocoridae	Pyrrhocorinae		<i>Dysdercus</i>	<i>sp.</i>	Andreas Krüger
Suigima, Mali (14.1	7-Jul-14	40 SB286A-HE-5	Hemiptera	Heteroptera	Reduvoidea	Reduviidae					Carsten Morkel
Thierola, Mali (13.6	14-Sep-14	160 TB616A-HE-1	Hemiptera	Heteroptera	Tingoidea	Tingidae	Tingidae	Tingini	<i>Cysteochila</i>	<i>endeca</i>	Thomas Henry
Suigima, Mali (14.1	7-Jul-14	40 SB286A-HE-6	Hemiptera	Heteroptera	Tingoidea	Tingidae	Tinginae	Tingini	<i>Dictyla</i>		Tatina Novoselsky
Thierola, Mali (13.6	5-Nov-14	160 TB688A	Hemiptera	Heteroptera	Tingoidea	Tingidae					Carsten Morkel
Markabougou, Mali (13.9128, -6.3425)		MB416B	Hemiptera	Sternorrhyncha	Aphidoidea	Aphididae					Laura Verú
Thierola, Mali (13.6583, -7.2155)		TB533A-HO-4	Hemiptera	Sternorrhyncha	Psylloidea						Charles Bartlett
Markabougou, Mali	21-Aug-14	190 MB416B	Hymenoptera	Apocrita	Apoidea	Apidae	Apinae	Meliponini	<i>Hypotrigona</i>		Corey Smith/John
Thierola, Mali (13.6	3-Aug-14	TB512A-HY-2	Hymenoptera	Apocrita	Apoidea	Crabronidae					Elijah Talamas
Thierola, Mali (13.6	24-Aug-14	190 TB563B-HY-2	Hymenoptera	Apocrita	Apoidea	Megachilidae					Elijah Talamas
Thierola, Mali (13.6	20-Aug-13	40 TB392A-HY-2	Hymenoptera	Apocrita	Apoidea	Sphecidae					Elijah Talamas
Markabougou, Mali	15-Oct-14	MB446A-HY-1	Hymenoptera	Apocrita	Apoidea						Elijah Talamas
Thierola, Mali (13.6583, -7.2155)		TB562B	Hymenoptera	Apocrita	Chalcidoidea	Chalcididae	Epitraninae		<i>Epitranus</i>		Bob Copeland
Markabougou, Mali	20-Aug-13	40 MB255A-HY-1	Hymenoptera	Apocrita	Chalcidoidea	Eulophidae					Jason Mottern
Thierola, Mali (13.6583, -7.2155)		TB838A	Hymenoptera	Apocrita	Chalcidoidea	Eupelmidae					Elijah Talamas
Thierola, Mali (13.6	24-Aug-14	190 TB563A-HY-3	Hymenoptera	Apocrita	Chalcidoidea						Elijah Talamas
Thierola, Mali (13.6	24-Aug-14	190 TB563B-HY-3	Hymenoptera	Apocrita	Chrysoidea	Bethylidae					Elijah Talamas
Suigima, Mali (14.1666, -7.2332)		SB053	Hymenoptera	Apocrita	Chrysoidea	Chrysididae					Elijah Talamas
Thierola, Mali (13.6	22-Oct-15	120 TB1056B	Hymenoptera	Apocrita	Chrysoidea	Dryinidae	Gonatopodinae		<i>Gonatopus</i>		Laura Verú
Thierola, Mali (13.6583, -7.2155)		TB608A	Hymenoptera	Apocrita	Cynipoidea	Figitidae	Eucollinae		<i>Afrostilba</i>		Massimo Olmi
Markabougou, Mali	14-Aug-14	160 MB397A-HY-1	Hymenoptera	Apocrita	Diaprioidea	Diapriidae	Diapriinae	Psilini	<i>Coptera</i>		Elijah Talamas
Markabougou, Mali	15-Aug-14	160 MB397A-HY-1	Hymenoptera	Apocrita	Diaprioidea	Diapriidae					Elijah Talamas
Markabougou, Mali	19-Jul-14	160 MB352A-HY-4	Hymenoptera	Apocrita	Ichneumonoidea	Braconidae	Cheloninae				Elijah Talamas
Markabougou, Mali	19-Jul-14	160 MB352A-HY-1	Hymenoptera	Apocrita	Ichneumonoidea	Braconidae					Elijah Talamas
Thierola, Mali (13.6583, -7.2155)		TB608A	Hymenoptera	Apocrita	Ichneumonoidea	Ichneumonidae	Tersilochinae				Robert Kula
Thierola, Mali (13.6583, -7.2155)		TB820A	Hymenoptera	Apocrita	Platygastridae	Scelionidae	Scelioninae	Gryonini	<i>Gryon</i>		Elijah Talamas
Thierola, Mali (13.6	10-Aug-14	190 TB527A-HY-2	Hymenoptera	Apocrita	Platygastridae	Scelionidae	Scelioninae		<i>Calliscelio</i>		Elijah Talamas
Thierola, Mali (13.6	24-Aug-14	190 TB563B-HY-3	Hymenoptera	Apocrita	Platygastridae	Scelionidae	Scelioninae		<i>Dicroscelio</i>		Elijah Talamas
Thierola, Mali (13.6	24-Aug-14	190 TB563A-HY-2	Hymenoptera	Apocrita	Platygastridae	Scelionidae	Scelioninae		<i>Fusicornia</i>	<i>eos</i>	Elijah Talamas
Thierola, Mali (13.6	24-Aug-14	190 TB563B-HY-3	Hymenoptera	Apocrita	Platygastridae	Scelionidae	Teleasinae	Teleasini	<i>Trimorus</i>		Elijah Talamas
Markabougou, Mali	22-Aug-13	40 MB261A-HY-1	Hymenoptera	Apocrita	Vespoidea	Formicidae	Myrmicinae	Creumatogastrini	<i>Creumatogaster</i>		Brendon Boudinot
Suigima, Mali (14.1	2-Sep-14	190 SB419A-HY-1	Hymenoptera	Apocrita	Vespoidea	Formicidae	Myrmicinae	Creumatogastrini	<i>Tetramorium</i>		Brendon Boudinot
Thierola, Mali (13.6	3-Aug-14	TB512A-HY-2	Hymenoptera	Apocrita	Vespoidea	Formicidae	Myrmicinae	Stenammini	<i>Messor</i>		Brendon Boudinot
Markabougou, Mali	14-Aug-13	160 MB242A-HY-3	Hymenoptera	Apocrita	Vespoidea	Formicidae	Ponerinae	Ponerini	<i>Anochetus</i>		Brendon Boudinot
Thierola, Mali (13.6	28-Oct-14	160 TB682A-HY-1	Hymenoptera	Apocrita	Vespoidea	Formicidae	Ponerinae	Ponerini	<i>Brachyponera</i>		Brendon Boudinot
Suigima, Mali (14.1	14-Aug-13	160 SB173A-HY-1	Hymenoptera	Apocrita	Vespoidea	Formicidae					Brendon Boudinot
Thierola, Mali (13.6	5-Aug-13	40 TB372A-HY-2	Hymenoptera	Apocrita	Vespoidea	Pompilidae					
Thierola, Mali (13.6	3-Aug-14	TB512A-HY-2	Hymenoptera	Apocrita	Vespoidea	Rhopalosomatidae					Elijah Talamas
Thierola, Mali (13.6	2-Nov-15	120 TB1062A	Neuroptera	Hemerobiiformia	Chrysopoidea	Chrysopidae	Chrysopinae	Chrysopini	<i>Brinckochrysa</i>		Stephen J Brooks
Thierola, Mali (13.6	7-Jul-14	160 TB462B	Neuroptera	Hemerobiiformia	Chrysopoidea	Chrysopidae	Chrysopinae	Chrysopini	<i>Chrysoperla</i>	<i>congrua</i>	Stephen J Brooks
Suigima, Mali (14.1666, -7.2332)		SB113A	Neuroptera	Hemerobiiformia	Mantispoidea	Mantispidae					Laura Verú
Thierola, Mali (13.6	22-Jul-13	120 TB361A-OR-1	Orthoptera	Caelifera	Acridoidea	Acrididae	Gomphocerinae				Hojun Song
Thierola, Mali (13.6	22-Jul-13	120 TB361A-OR-1	Orthoptera	Caelifera	Acridoidea	Acrididae	Oedipodinae				Hojun Song
Thierola, Mali (13.6	5-Aug-13	40 TB372A-OR-2	Orthoptera	Caelifera	Acridoidea	Acrididae					Hojun Song
Thierola, Mali (13.6	23-Jul-13	120 TB364A-OR-1	Orthoptera	Caelifera	Pyrgomorphae	Pyrgomorphidae	Pyrgomorphae	Atractomorphi	<i>Atractomorpha</i>		Ricardo Marino-Pé
Thierola, Mali (13.6	19-Jul-13	40 TB351A-OR-1	Orthoptera	Caelifera	Pyrgomorphae	Pyrgomorphidae	Pyrgomorphae	Pyrgomorphi	<i>Pyrgomorpha</i>		Ricardo Marino-Pé
Thierola, Mali (13.6	13-Oct-15	190 TB1033A-OR-2	Orthoptera	Caelifera	Tetrigoidea	Tetrigidae	Tetriginae	Tetrigini			Hojun Song
Thierola, Mali (13.6	28-Oct-14	190 TB683A-OR-2	Orthoptera	Ensifera	Grylloidea	Gryllidae	Oecanthinae	Oecanthini	<i>Oecanthus</i>		Song Lab
Thierola, Mali (13.6	13-Oct-15	190 TB1033A-OR-1	Orthoptera	Ensifera	Tettigonoidea	Tettigoniidae	Conocephalinae				Derek A. Woller &
Thierola, Mali (13.6	12-Oct-14	120 TB633A-OR-1	Orthoptera	Ensifera	Tettigonoidea	Tettigoniidae	Phaneropterinae				Derek A. Woller &
Markabougou, Mali	7-Nov-14	160 MB493A-OR-1	Orthoptera	Ensifera	Tettigonoidea	Trigonididae	Trigonidiinae	Trigonidiini			Hojun Song
Thierola, Mali (13.6583, -7.2155)		TB349I	Neuroptera	Myrmeleontiformi	Myrmeleontoidea	Myrmeleontidae					Laura Verú
Thierola, Mali (13.6583, -7.2155)		TB502A	Thysanoptera								Laura Verú
Thierola, Mali (13.6583, -7.2155)						Culicidae					

Table S2. Taxonomical, ecological, and natural history of selected taxa.

Table S2: Identification, size, ecological services, and natural history of selected taxa

Taxon	Order	Family	Taxonomist	Body Length	Mass (mg)	Ecological Service	Taxa affected	Diet:gen/spec	Habitat	HabitatLarvae	Aestivation	Generatime	Migration (genus level)
<i>Dysdercus</i> sp. Audinet-Serville	Hemiptera	Pyrrhocoridae	Thomas Henry	13.8	43.52	Agricultural Pest	Cotton and many other crops	seeds malvales generalist	Lush vegetation	Baobab/Cotton/malvales, even millet, sorghum			Windborne LDM in W Africa: Ivory coast
<i>Cystechilla endeca</i> Drake	Hemiptera	Tingidae	Thomas Henry	3.23	0.57	Agricultural Pest	Pest of tamarind, rice	generalist					
<i>Metacanthus nitidus</i> Štusá	Hemiptera	Berytidae	Carsten Morkel	5.7	0.83		Feed on nettle: <i>Fleuria aestuans</i> may also be a predator of crop pests	Generalist	steppe and semi-desert				Suspected LDM
<i>Nephotettix modulator</i> Melichar	Hemiptera	Cicadellidae	Charles Bartlett	4.56	2.98	Agricultural Pest	Voracious herbivore on crops and a vector of viral diseases	Generalist	Rice, millet, grasses	Rice, millet, grasses			
<i>Anopheles coluzzii</i> Coetzee & Wilkerson	Diptera	Culicidae	Adama Dao	1.2	1.5	Human Disease Vector	Primary vector of malaria and other human diseases	human specific	Standing water, peridomestic	aquatic	Yes: Dec-May	10-14 d	Windbone LDM in W Africa
<i>Zolotarevskyella rhytidera</i> (Chaudoir)	Coleoptera	Carabidae	Lourdes Chamorro	2.93	0.58	Predator of agricultural pests?	Predator agricultural pest species	Generalist					
<i>Paederus sabeus</i> Erichson	Coleoptera	Staphylinidae	Howard Frank	7.5	5.3	Agent of dermatitis in people and a predator of agricultural pests	Medically important and predatory on crop pests	generalist predator	Wet habitats: marshes, edges of lakes, streams, rice fields	Wet habitats: marshes, edges of lakes, streams, rice fields			
<i>Paederus fuscipes</i> Curtis	Coleoptera	Staphylinidae	Howard Frank	6.3	3.32	Agent of dermatitis in people and a predator of agricultural pests	Medically important and predatory on crop pests. Human infestations coincided with the local rice harvest	generalist predator	Wet habitats: marsh, edges of lakes, streams, rice fields	Wet habitats: marshes, edges of lakes, streams, rice fields		45 d @28C	
<i>Chaetocnema coletta</i> Bechyn	Coleoptera	Chrysomelidae	Maurizio Biondi	2.18	1.15	Agricultural Pest	Genus is a pest of corn, sweet potato, barley, wheat, sorghum, bean, alfalfa, rye, sugarbeet. Feeds voraciously on foliage; vector plant pathogen: RYMV	generalist?	Wet vegetation and montane grasslands, absent from desert areas	moist environments			
<i>Berosus</i> sp. Leach	Coleoptera	Hydrophilidae	Warren Steiner	3.05	1.7	Predators of mosquito larvae	Predator of mosquito larvae	Generalist	Aquatic: ponds, puddles, streams	Aquatic: ponds, puddles, streams	into soil enter domrancy		
<i>Microchelonus</i> sp. (Szépligeti)	Hymenoptera	Brachonidae	Elijah Talamas	3.16	1.02	Parasitoid of agricultural pests?	Unknown host, typically lepidopterans as Tortricidae, Gelechiidae and others	Specialist	Lepidopteran egg/caterpillar	host body			
<i>Hypotrigona</i> sp. Cockerell	Hymenoptera	Megachillidae	Corey Smith, John	3.19	2.74	Pollinator -high importance	Frequent crop visitors in E Africa, collect nectar and pollen from almost all crop plant species.	Generalist	well distributed in the tropics in various habitats. In East Africa: grasslands, natural forests, wetlands, farmlands,	Social bees nest in soils and wood. Uganda: commonly nest on walls of old buildings and in dry wood in forests. Sometimes in termite mounds.			
<i>Hydrovatus</i> sp. Motschulsky	Coleoptera	Dytiscidae	Saverio Rocchi	2.12	1.69	Predators of mosquito larvae	Predator of mosquito larvae	Predator	Aquatic: ponds, puddles, streams	Aquatic: ponds, puddles, streams			