

## SUPPLEMENTARY INFORMATION

### Arthropod associates of Kenyan buffelgrass (*Cenchrus ciliaris*): a field survey for biological control candidates of a globally important invasive grass

Colin R. Morrison<sup>1,2\*</sup>, Robert M. Plowes<sup>1,2</sup>, Ivy Ng'iru<sup>3,4,5</sup>, Aaron C. Rhodes<sup>1,2</sup>, Dino J. Martins<sup>3,6</sup> and Lawrence E. Gilbert<sup>1,2</sup>

<sup>1</sup>*Department of Integrative Biology, The University of Texas at Austin, Austin TX U.S.A.*

<sup>2</sup>*Brackenridge Field Laboratory, The University of Texas at Austin, Austin TX, U.S.A.*

<sup>3</sup>*Mpala Research Centre, Nanyuki, Kenya.*

<sup>4</sup>*School of Biosciences, Cardiff University, Cardiff U.K.*

<sup>5</sup>*UK Centre for Ecology and Hydrology, Wallingford, U.K.*

<sup>6</sup>*Turkana Basin Institute, Stony Brook University, NY, U.S.A.*

**Table S1.** Ecological metrics of host specificity and diversity of each taxon and the whole herbivore assemblage.

<b>Taxon</b>	<b>Specialist ratio</b>	<b>Richness</b>	<b>Diversity</b>	<b>Evenness</b>
Whole assemblage	0.28	29	2.41	0.71
Trombidiformes	0.50	2	0.64	0.92
Coleoptera	0.40	5	1.40	0.87
Diptera	0.67	6	0.70	0.39
Hemiptera	0.00	4	1.14	0.82
Hymenoptera	1.00	1	0.00	NA
Lepidoptera	0.00	6	1.70	0.95
Thysanoptera	0.00	5	1.08	0.67

**Table S2.** GenBank accession numbers for arthropod morphospecies that were barcoded and included in this dataset.

<b>Unique</b>	<b>Accession</b>	<b>Morphospecies</b>	<b>link</b>
130146	OR269779	Cecidomyiidae_sp3	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR269779">https://www.ncbi.nlm.nih.gov/nuccore/OR269779</a>
130148	OR413721	Polyxenidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413721">https://www.ncbi.nlm.nih.gov/nuccore/OR413721</a>
130152	OR334451	Scolytie_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR334451">https://www.ncbi.nlm.nih.gov/nuccore/OR334451</a>
130153	OR413722	Cicadellidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413722">https://www.ncbi.nlm.nih.gov/nuccore/OR413722</a>
130154	OR413723	Eulophidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413723">https://www.ncbi.nlm.nih.gov/nuccore/OR413723</a>
130155	OR413724	Cecidomyiidae_sp3	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413724">https://www.ncbi.nlm.nih.gov/nuccore/OR413724</a>
130156	OR413726	Pteromalidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413726">https://www.ncbi.nlm.nih.gov/nuccore/OR413726</a>
130157	OR413727	Cicadellidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413727">https://www.ncbi.nlm.nih.gov/nuccore/OR413727</a>
130158	OR388864	Cicadellidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR388864">https://www.ncbi.nlm.nih.gov/nuccore/OR388864</a>
130159	OR413725	Chrysomelidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413725">https://www.ncbi.nlm.nih.gov/nuccore/OR413725</a>
130160	OR413728	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413728">https://www.ncbi.nlm.nih.gov/nuccore/OR413728</a>
130161	OR413731	Phlaeothripidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413731">https://www.ncbi.nlm.nih.gov/nuccore/OR413731</a>
130163	OR413730	Hystoneura_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413730">https://www.ncbi.nlm.nih.gov/nuccore/OR413730</a>
130164	OR413729	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413729">https://www.ncbi.nlm.nih.gov/nuccore/OR413729</a>
130166	OR413732	Coleoptera_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR413732">https://www.ncbi.nlm.nih.gov/nuccore/OR413732</a>
130168	OR432665	Entomobryidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432665">https://www.ncbi.nlm.nih.gov/nuccore/OR432665</a>
130169	OR432646	Myllocerus_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432646">https://www.ncbi.nlm.nih.gov/nuccore/OR432646</a>
133022	OR432647	Anthribidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432647">https://www.ncbi.nlm.nih.gov/nuccore/OR432647</a>
133023	OR432658	Cecidomyiidae_sp3	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432658">https://www.ncbi.nlm.nih.gov/nuccore/OR432658</a>
133027	OR432648	Coleoptera_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432648">https://www.ncbi.nlm.nih.gov/nuccore/OR432648</a>
133031	OR432670	Cicadellidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432670">https://www.ncbi.nlm.nih.gov/nuccore/OR432670</a>
133032	OR436960	Culicidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR436960">https://www.ncbi.nlm.nih.gov/nuccore/OR436960</a>
133033	OR432649	Haplothrips_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432649">https://www.ncbi.nlm.nih.gov/nuccore/OR432649</a>
133037	OR432695	Trichogrammatidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432695">https://www.ncbi.nlm.nih.gov/nuccore/OR432695</a>
133038	OR432691	Pheidole_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432691">https://www.ncbi.nlm.nih.gov/nuccore/OR432691</a>
133039	OR432692	Pheidole_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432692">https://www.ncbi.nlm.nih.gov/nuccore/OR432692</a>
133040	OR432693	Pheidole_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432693">https://www.ncbi.nlm.nih.gov/nuccore/OR432693</a>
133041	OR432671	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432671">https://www.ncbi.nlm.nih.gov/nuccore/OR432671</a>
133042	OR432672	Cicadellidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432672">https://www.ncbi.nlm.nih.gov/nuccore/OR432672</a>
133043	OR432673	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432673">https://www.ncbi.nlm.nih.gov/nuccore/OR432673</a>
133045	OR432674	Cicadellidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432674">https://www.ncbi.nlm.nih.gov/nuccore/OR432674</a>
133047	OR432675	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432675">https://www.ncbi.nlm.nih.gov/nuccore/OR432675</a>
133051	OR432676	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432676">https://www.ncbi.nlm.nih.gov/nuccore/OR432676</a>
133053	OR432639	Rhipicephalus_puchellus	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432639">https://www.ncbi.nlm.nih.gov/nuccore/OR432639</a>

133054	OR432677	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432677">https://www.ncbi.nlm.nih.gov/nuccore/OR432677</a>
133058	OR448777	Omphalestra_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR448777">https://www.ncbi.nlm.nih.gov/nuccore/OR448777</a>
133062	OR455793	Panagrolaimidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR455793">https://www.ncbi.nlm.nih.gov/nuccore/OR455793</a>
133063	OR432678	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432678">https://www.ncbi.nlm.nih.gov/nuccore/OR432678</a>
133064	OR432679	Cicadellidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432679">https://www.ncbi.nlm.nih.gov/nuccore/OR432679</a>
133065	OR432680	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432680">https://www.ncbi.nlm.nih.gov/nuccore/OR432680</a>
133066	OR432681	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432681">https://www.ncbi.nlm.nih.gov/nuccore/OR432681</a>
133069	OR432682	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432682">https://www.ncbi.nlm.nih.gov/nuccore/OR432682</a>
133070	OR432683	Cicadellidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432683">https://www.ncbi.nlm.nih.gov/nuccore/OR432683</a>
133071	OR432684	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432684">https://www.ncbi.nlm.nih.gov/nuccore/OR432684</a>
133072	OR432685	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432685">https://www.ncbi.nlm.nih.gov/nuccore/OR432685</a>
133074	OR432686	Cicadellidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432686">https://www.ncbi.nlm.nih.gov/nuccore/OR432686</a>
133088	OR439367	Crambidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR439367">https://www.ncbi.nlm.nih.gov/nuccore/OR439367</a>
133113	OR432696	Trichogrammatidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432696">https://www.ncbi.nlm.nih.gov/nuccore/OR432696</a>
133114	OR432650	Scolytie_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432650">https://www.ncbi.nlm.nih.gov/nuccore/OR432650</a>
133115	OR432640	Eriophyidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432640">https://www.ncbi.nlm.nih.gov/nuccore/OR432640</a>
133118	OR432694	Pheidole_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432694">https://www.ncbi.nlm.nih.gov/nuccore/OR432694</a>
133121	OR448778	Haplothrips_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR448778">https://www.ncbi.nlm.nih.gov/nuccore/OR448778</a>
133124	OR432689	Neomaskellia_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432689">https://www.ncbi.nlm.nih.gov/nuccore/OR432689</a>
133126	OR432641	Oligonychus_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432641">https://www.ncbi.nlm.nih.gov/nuccore/OR432641</a>
133132	OR455794	Lepidoptera_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR455794">https://www.ncbi.nlm.nih.gov/nuccore/OR455794</a>
133138	OR394963	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR394963">https://www.ncbi.nlm.nih.gov/nuccore/OR394963</a>
133141	OR432651	Chrysomelidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432651">https://www.ncbi.nlm.nih.gov/nuccore/OR432651</a>
133143	OR439353	Apterygothrips_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR439353">https://www.ncbi.nlm.nih.gov/nuccore/OR439353</a>
133145	OR448779	Haplothrips_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR448779">https://www.ncbi.nlm.nih.gov/nuccore/OR448779</a>
133149	OR432690	Neomaskellia_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432690">https://www.ncbi.nlm.nih.gov/nuccore/OR432690</a>
133150	OR432657	Cecidomyiidae_sp3	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432657">https://www.ncbi.nlm.nih.gov/nuccore/OR432657</a>
133152	OR432659	Cecidomyiidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432659">https://www.ncbi.nlm.nih.gov/nuccore/OR432659</a>
133153	OR432687	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432687">https://www.ncbi.nlm.nih.gov/nuccore/OR432687</a>
133154	OR439350	Priesneriola_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR439350">https://www.ncbi.nlm.nih.gov/nuccore/OR439350</a>
133155	OR439352	Phlaeothripidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR439352">https://www.ncbi.nlm.nih.gov/nuccore/OR439352</a>
133160	OR432660	Cecidomyiidae_sp3	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432660">https://www.ncbi.nlm.nih.gov/nuccore/OR432660</a>
133161	OR455795	Haplothrips_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR455795">https://www.ncbi.nlm.nih.gov/nuccore/OR455795</a>
133164	OR439351	Scolytie_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR439351">https://www.ncbi.nlm.nih.gov/nuccore/OR439351</a>
133165	OR432652	Dermestidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432652">https://www.ncbi.nlm.nih.gov/nuccore/OR432652</a>
133166	OR432653	Dermestidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432653">https://www.ncbi.nlm.nih.gov/nuccore/OR432653</a>
133167	OR432654	Coleoptera_sp	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432654">https://www.ncbi.nlm.nih.gov/nuccore/OR432654</a>

133169	OR439354	Apterygothrips_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR439354">https://www.ncbi.nlm.nih.gov/nuccore/OR439354</a>
133170	OR439355	Balclutha_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR439355">https://www.ncbi.nlm.nih.gov/nuccore/OR439355</a>
133176	OR455796	Crambidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR455796">https://www.ncbi.nlm.nih.gov/nuccore/OR455796</a>
133177	OR432688	Coniesta_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432688">https://www.ncbi.nlm.nih.gov/nuccore/OR432688</a>
134491	OR439357	Noctuidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR439357">https://www.ncbi.nlm.nih.gov/nuccore/OR439357</a>
134497	OR453531	Crambidae_sp2	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR453531">https://www.ncbi.nlm.nih.gov/nuccore/OR453531</a>
134499	OR439356	Cerambycidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR439356">https://www.ncbi.nlm.nih.gov/nuccore/OR439356</a>
134515	OR455797	Scarabaeidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR455797">https://www.ncbi.nlm.nih.gov/nuccore/OR455797</a>
134516	OR448776	Apterygothrips_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR448776">https://www.ncbi.nlm.nih.gov/nuccore/OR448776</a>
134517	OR432655	Cerambycidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432655">https://www.ncbi.nlm.nih.gov/nuccore/OR432655</a>
134524	OR432642	Scolytine_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432642">https://www.ncbi.nlm.nih.gov/nuccore/OR432642</a>
134533	OR432661	Orseolia_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432661">https://www.ncbi.nlm.nih.gov/nuccore/OR432661</a>
134534	OR432662	Cecidomyiidae_sp3	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432662">https://www.ncbi.nlm.nih.gov/nuccore/OR432662</a>
134536	OR432643	Coleoptera_sp	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432643">https://www.ncbi.nlm.nih.gov/nuccore/OR432643</a>
134542	OR436959	Cecidomyiidae_sp3	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR436959">https://www.ncbi.nlm.nih.gov/nuccore/OR436959</a>
134544	OR432644	Cerambycidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432644">https://www.ncbi.nlm.nih.gov/nuccore/OR432644</a>
134552	OR432663	Orseolia_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432663">https://www.ncbi.nlm.nih.gov/nuccore/OR432663</a>
134561	OR432664	Cecidomyiidae_sp3	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432664">https://www.ncbi.nlm.nih.gov/nuccore/OR432664</a>
134563	OR432645	Cerambycidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432645">https://www.ncbi.nlm.nih.gov/nuccore/OR432645</a>
134570	OR432656	Cerambycidae_sp1	<a href="https://www.ncbi.nlm.nih.gov/nuccore/OR432656">https://www.ncbi.nlm.nih.gov/nuccore/OR432656</a>

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