







Spider checklist for the Blouberg, in the Vhembe Biosphere Reserve, South Africa



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Background: The north-eastern mountainous region of South Africa has been identified as a spider diversity hotspot and centre of endemism. The Blouberg is an isolated inselberg that forms part of the Soutpansberg geological complex, the northernmost mountain in South Africa.

Objectives: This article provides an updated species list of the Blouberg spiders, which includes details of the distribution patterns and conservation statuses of all taxa. Exotic species and species of special conservation concern are identified.

Method: Surveys were conducted between 2005 and 2012, and a range of collecting methods were used to sample both the ground and field layers.

Results: A total of 47 families were sampled in 210 genera and 346 species. The families of Salticidae (45 spp.), Gnaphosidae (32 spp.), Thomisidae (31 spp.), Araneidae (26 spp.) and Lycosidae (24 spp.) were the most diverse. Five species are of conservation concern, one species is Vulnerable, one is possibly exotic and 62 species are South African endemics.

Conclusion: Presently, 17% of South African species are protected on the mountain and its surrounding foothills. The latter are of particular conservation concern, while the mountaintop and its associated habitats are under-sampled.

Keywords: South African Survey of Arachnida; conservation status; endemism; exotic species; threats; Limpopo province.

Introduction

The Blouberg (BB) is an inselberg that is geologically related, but geomorphically distinct from Soutpansberg (SPB), separated from it by a plain of approximately 15 km (Hahn 2011). The spiders of the SPB are relatively well known and very diverse, with > 600 species and 13 endemic taxa (Foord, Dippenaar-Schoeman & Stam 2013). Although 30 times smaller than the SPB, the BB is 300 m higher (Hahn 2011). Previous surveys of the mountain were restricted to the Blouberg Nature Reserve on the north-eastern foothills of the mountain (Muelelwa et al. 2010), while the mountain massif itself has been neglected with no known records.

Within the ambit of the South African National Survey of Arachnida (SANSA) (Dippenaar-Schoeman et al. 2015), the current study presents the sampling in the BB, listing the global distribution, endemism and conservation profile for each species.

Method

Study area

The BB is an inselberg of the same geological formation as the SPB, but separated from it by 15 km gap of relatively flat plains (Figure 1). Blaauwberg at 2051 m above sea level is the highest peak on the Blouberg, protruding 1200 m from the surrounding plain. The mountain predominantly consists of erosion-resistant quartzite and quartzitic sandstones, the sandy soils derived from these formations are acidic, well drained and nutrient poor (Mostert et al. 2008). Aeolian Kalahari sands form fine-grained deep soils on the northern plains, while clayey well-drained soils derived from diabase and basalt intrusions characterise the southern slopes. It is a summer rainfall area, with cold and dry early winters, hot and dry late winter and early spring conditions developing into hot and wet summers.

The southern mountain slopes consist of mixed bushveld becoming forest at increased elevations. The habitat of the upper plateau situated at an altitude of about 1600 m is mostly of mixed

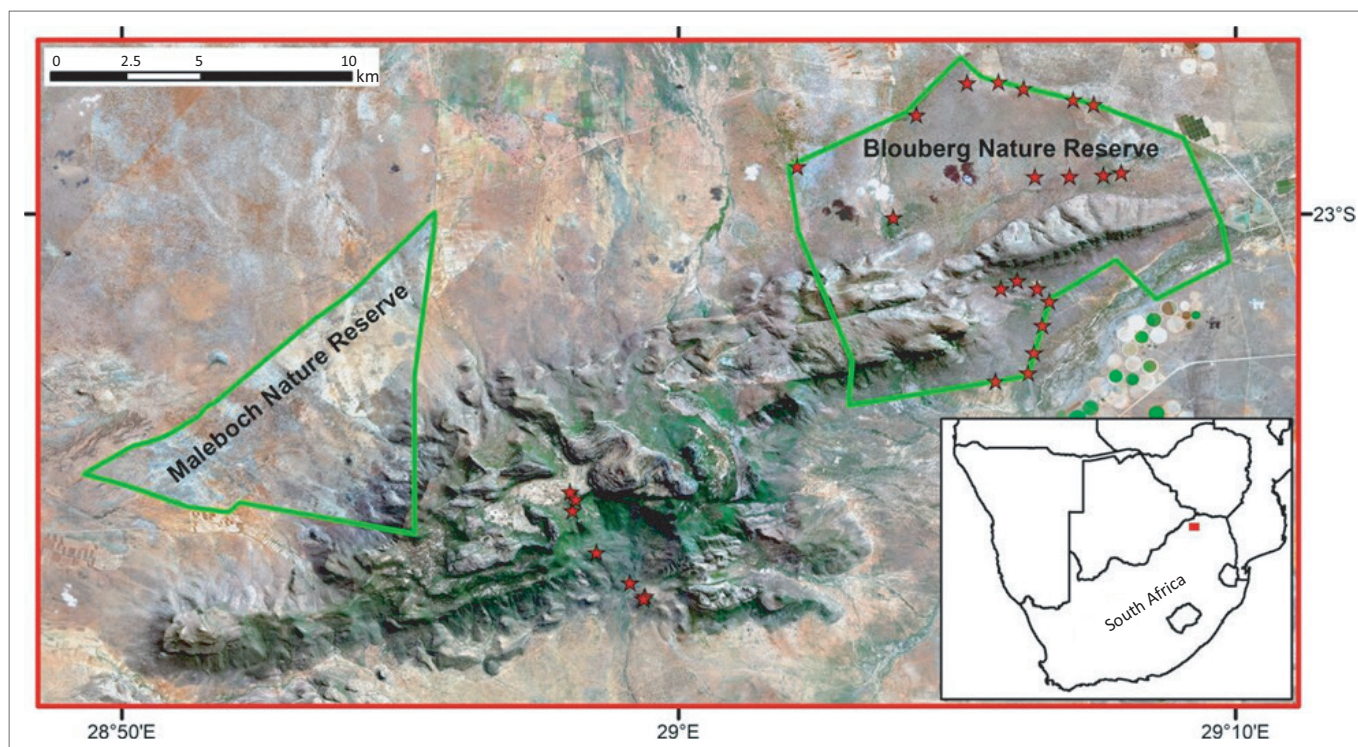


FIGURE 1: Map of study area. Symbols (stars) indicate sampling localities.

grassland with wooded patches and bushland limited to drainage lines that are directed upwards to the summit (Figure 2a–c). Foothills include Kalahari sandveld on the northern aspect to sweet bushveld to the east and west (Figure 2d–g). Habitats also include tamboti woodland, fig tree forests, baobabs forests and floodplains (Figure 2).

Sampling methods and period

Spiders were sampled within the context of focused research projects between 2005 and 2006 (Mueelwa et al. 2010), 2012 (Schoeman et al. in press) and as part of a SANSA (Dippenaar-Schoeman et al. 2015) survey of the mountain in 2009 (Figure 1). Sampling consisted of pitfall traps, litter sifting, sweeping, beating and hand collecting.

Species were identified by the first three authors. Voucher specimens are deposited in the National Collection of Arachnida (Agricultural Research Institute – Plant Health & Protection, Pretoria). Agelenidae, Araneidae, Dictynidae and Theridiidae taxonomy are in need of major revisions, and many specimens in these families are unidentified (Appendix 1). We only list generic names for immature specimens.

Distribution value

The distribution values (DVs) are provided for each species (Table 1) calculated based on current known global distribution, which included six distribution categories, ranging from:

6 = Blouberg endemic (BBE), known only from type/one locality only; 5 = South African endemic known from the Limpopo

province (SAE-LE), wider than type locality; 4 = South African endemic known from two adjoining provinces; 3 = South African endemics > two provinces or two provinces not adjoining; 2 = Southern Africa Endemics (STHE) (south of Zambezi and Kunene Rivers); 1 = Afrotropical Region Endemics (AE); 0 = Africa and beyond (C).

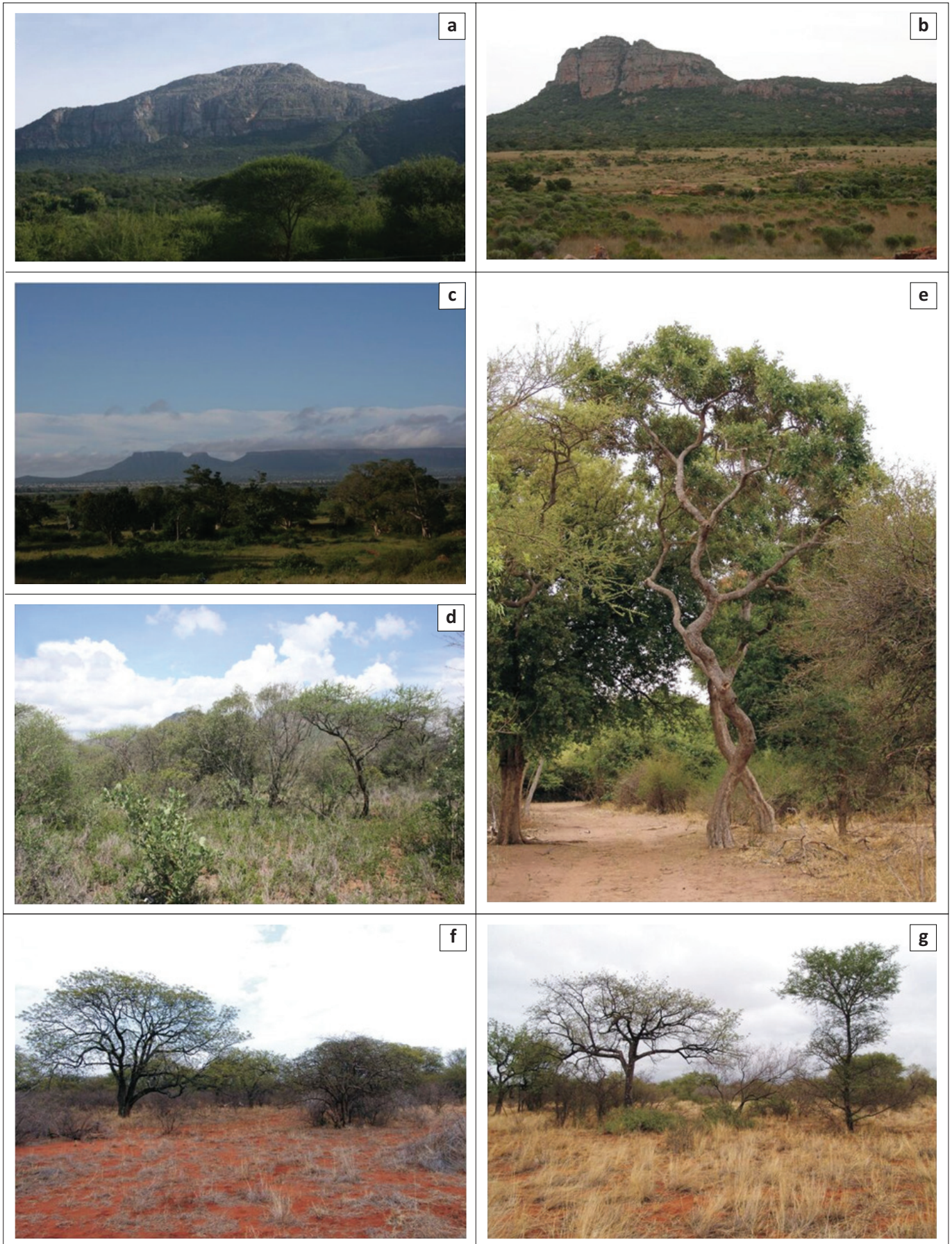
Conservation profiles

Species known from immatures only, or undetermined taxa, were Not Evaluated (NE). Species known from only one sex, old material or not included in recent revisions, were designated as Data Deficient for either taxonomic reasons or the lack of Distribution Data (DD). Species with broad global distribution ranges (Categories 0–2) were considered to be of Least Concern (LC), while Categories 3 and 4 are considered to be South African endemics (SAE) and Category 5 is Limpopo endemics (SAE-LE).

Results and discussion

Numbers present

A total of 47 families represented by 216 genera and 346 species have been recorded from the BB (Tables 2 and Appendix 1). A comprehensive account of the spider diversity of the Blouberg is provided in the form of a checklist (Appendix 1). This account adds 170 species to Blouberg since the account published by Mueelwa et al. (2010). This diversity is in excess of 150% more than the average of 228 species that were recorded in other studies in the Limpopo province, which range from 175 species in Nylsvley (Dippenaar-Schoeman & Prendini 2009) to 286 species in the Makalali Nature Reserve (Whitmore et al. 2002).



Source: All photos courtesy of Stefan Foord, except (e), (f), (g) by Norbert Hahn.

FIGURE 2: Habitat associated with the Blouberg: (a) southern aspect of the mountain, (b) grassland on top of the mountain, (c, d) foothills (south of the mountain), (e-g) foothills north of the mountain with deep sandy soil.

TABLE 1: Conservation status and endemism of the spider species sampled at the Blouberg.

Category	No. spp.	Conservation status	%
Conservation status			
Data Deficient (taxonomic reason or lack of Distribution Data)	12	DD	3.5
Not Evaluated: Immature, new or undetermined	34	NE	9.8
Least Concern	299	LC	86.4
Vulnerable	1	VU	0.3
Endemism			
0 – Africa and wider (C)	21	LC	6.1
1 – Africa endemics (AE)	137	LC	39.6
2 – Southern Africa endemics (STHE)	90	LC	26.0
3 – South Africa endemics (SAE): > 3 provinces	52	LC	15.0
4 – South Africa endemics (SAE): 2 adjacent provinces	7	LC/Rare	2.0
5 – Limpopo province endemics (LE)	5	DD/Rare	1.4
6 – Blouberg endemic (BBE)	0	Rare	0.0

No. spp., number of species; DD, Data Deficient; NE, Not Evaluated; LC, Least Concern; VU, Vulnerable.

Distribution and conservation concern

Of the 346 species sampled, 12 are DD and lack taxonomic or distribution data, while 34 species (9.8 %) were NE (Table 1 and Appendix 1). Fifteen species are possibly new to science and 16 species were undetermined because of the lack of a resolved taxonomy (Table 1). Many of the possibly new species fall within species-rich families that can only be confirmed after revisionary studies. Most of the remaining 299 species (86.4%) are listed as LC. These large groups include 20 spp. (5.8%) that are cosmopolitan and 139 spp. (40.2%) that are found throughout Africa. A large proportion (153 spp., 44.2%) are endemic to southern Africa, of which five (1.4%) are Limpopo province endemics and 57 (16.5%) are endemic to South Africa (Table 1). Only 64 (18.5 %) of the species are restricted to South Africa (Table 1). No endemic species are recorded for the Blouberg nor were any previous Soutpansberg endemic species recorded for the mountain.

The Blouberg Nature Reserve is the type locality of two Thomisidae species: *Heriaeus peterwebbi* Van Niekerk & Dippenaar-Schoeman, 2013 (Figure 3c) and *Mystaria savannensis* Lewis & Dippenaar-Schoeman, 2014 (Figure 2d). Five species are restricted to the Limpopo province and of special concern because of their restricted distribution (Appendix 1): *Amoxenus daedalus* Dippenaar & Meyer, 1980 (Amoxenidae) (Figure 3a); *Vendaphaea lajuma* Haddad, 2009 (Corinnidae); *Galeosoma vandami* Hewitt, 1915 (Idiopidae) (Figure 3g); *Segregara paucispinulosus* (Hewitt, 1915) (Idiopidae) and *Ballomma neethlingi* Jocqué & Henrard, 2015 (Zodariidae). Twenty spider species recorded on the Blouberg have a global distribution (World Spider Catalog 2019). *Isoxya semiflava* Simon, 1887 (Araneidae) and *Phlegra procera* Wesolowska & Cumming, 2008 (Salticidae) are new records for South Africa (Appendix 1).

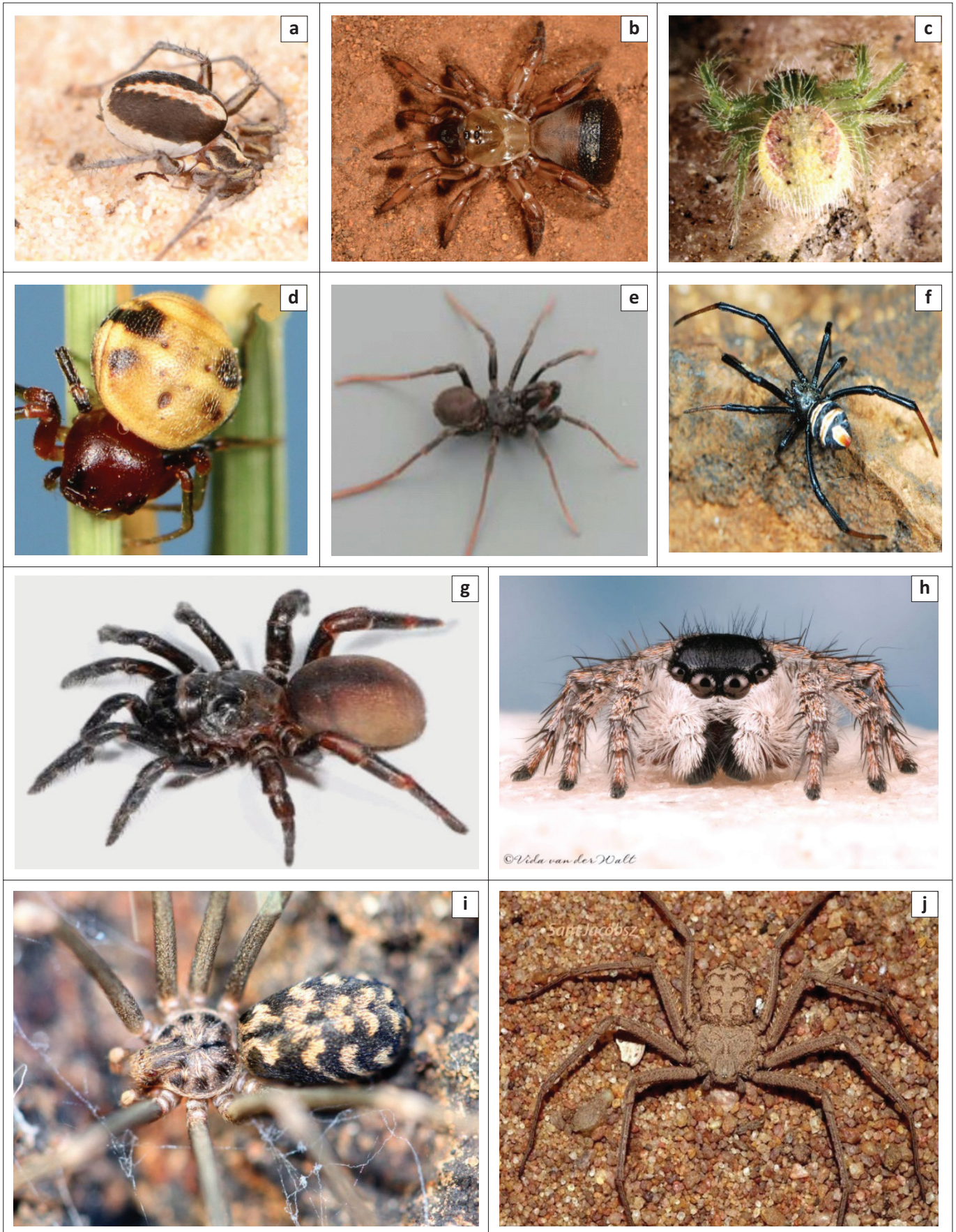
Family diversity

Similar to other studies in the Savanna Biome (Foord et al. 2011), Salticidae (46 spp.), Gnaphosidae (37 spp.), Thomisidae (31 spp.) and Araneidae (26 spp.) consistently dominate spider

TABLE 2: Spider diversity of Blouberg, with total number of genera and species sampled per family.

Family	Genera	Species
Agelenidae	4	5
Amaurobiidae	1	1
Amoxenidae	2	3
Araneidae	17	26
Atypidae	1	1
Barychelidae	2	3
Caponiidae	1	1
Cheiracanthiidae	2	6
Clubionidae	1	1
Corinnidae	4	4
Ctenidae	1	2
Cyatholipidae	1	1
Cyrtoucheniidae	1	1
Deinopidae	1	1
Dictynidae	3	3
Dipluridae	2	2
Eresidae	4	5
Gnaphosidae	18	37
Hersiliidae	1	3
Idiopidae	4	6
Linyphiidae	6	7
Liocranidae	1	2
Lycosidae	16	24
Mimetidae	2	2
Mysmenidae	1	1
Nemesiidae	1	2
Oecobiidae	1	1
Oonopidae	1	1
Oxyopidae	3	16
Palpimanidae	2	3
Philodromidae	7	13
Pholcidae	3	3
Pisauridae	5	6
Salticidae	27	47
Scytodidae	1	5
Segestriidae	1	2
Selenopidae	2	6
Sicariidae	2	2
Sparassidae	3	6
Tetragnathidae	3	3
Theraphosidae	2	2
Theridiidae	17	23
Thomisidae	19	31
Trachelidae	5	6
Trochanteriidae	1	1
Uloboridae	5	5
Zodariidae	8	18
Total	216	346

diversity in the Savanna Biome (Table 2 and Appendix 1). The salticids are active hunters and present in almost all habitat strata. Their silk retreats are utilised for molting, oviposition during periods of inactivity or occasionally for mating (Dippenaar-Schoeman 2014). Of the 46 spp. sampled, 26 spp. are new records for the Blouberg and one, *Bianor albobimaculatus* (Lucas, 1846), is also known from outside Africa (Mediterranean to Russia, Asia and India); 41 of the salticid species are listed as LC and 24 of them have a wide distribution throughout Africa, while 12 species are known only from southern Africa. *Hasarinella distincta*



Source: All photos courtesy of Peter Webb, except (e) Ian Engelbrecht, (h) Vida van der Walt.

FIGURE 3: Spiders of the Blouberg: (a) *Ammoxenus daedalus* (Ammoxenidae), (b) *Galeosoma vandami* (Idiopidae), (c) *Heriaeus peterwebbi* (Thomisidae), (d) *Mystaria savannensis* (Thomisidae), (e) *Calommata transvaalensis* male (Atypidae) (f) *Latrodectus renivulvatus* (Theridiidae), (g) *Idiops castaneus* (Idiopidae), (h) New species (Salticidae), (i) *Loxosceles simillima* (Sicariidae), (j) *Hexophthalma hahnidae* (Sicariidae).

Haddad & Wesołowska, 2013 and *Tomomingi szutsi* Wesołowska & Haddad, 2013, are only known from Limpopo and Mpumalanga provinces. Two salticid species, one in the subfamily Aelurullinae (Figure 3f) and the other in the genus *Rhene*, are possibly new to science, while a species previously only known from Zimbabwe, *Phlegra procera* Wesołowska & Cumming, 2008, was recorded in South Africa for the first time (Appendix 1).

Gnaphosids are free-living spiders found mainly on the soil surface, represented by 32 species belonging to 13 genera (Table 2 and Appendix 1). The most diverse gnaphosid genera are the *Asemesthes* (6 spp.) and *Zelotes* (10 spp.). Both genera are particularly common in the arid regions of South Africa. Of the 32 species sampled, 11 are new records for the Blouberg. One of these species, *Odontodrassus aphanes* (Thorell, 1897), is widely distributed and previously only known from the Seychelles, Myanmar to Japan, New Caledonia, French Polynesia and was introduced to Jamaica. This is also the first record for this species in South Africa. Twenty-eight of the species are listed as LC and only seven are widely distributed throughout Africa, while 15 species are restricted to southern Africa. Six species are only known from South Africa, three of these species belong to the genera *Leptodrassex*, *Trephopoda* and *Xerophaeus* and are possibly new to science.

Thomisids are sit-and-wait predators, largely restricted to grass, shrubs, flowers and trees, while few are associated with the ground surface. On the Blouberg, 19 genera represented by 31 spp. were sampled (Table 2 and Appendix 1). Thomisids easily disperse by wind as evidenced by the fact that 30 of the 31 known species are widely distributed throughout Africa. Although Blouberg is the type locality of *Heriaeus peterwebbi* (Figure 3c) and *Mystaria savannensis* (Figure 3d), both species have a wide African distribution and only *Pherecydes lucinae* Dippenaar-Schoeman, 1980, is restricted to South Africa.

Araneids are commonly known for their orb webs. Twenty-six species from 17 genera are known from the Blouberg (Table 2 and Appendix 1). The taxonomy of African genera are unresolved and the generic positions of two species listed here are uncertain, while three species are possibly new to science. Twenty-one species are widely distributed throughout Africa and three species, namely *Cyrtophora citricola* (Forskål, 1775), *Hypsosinga pygmaea* (Sundevall, 1831) and *Hypsosinga albovillata* (Westring, 1851), have a worldwide distribution. *Cyclosa elongatus* (Lawrence, 1947) is the only species with a distribution restricted to South Africa, while *Isoxya semiflava* Simon, 1887, previously known from West and Central Africa, is a new record for South Africa.

Other species of concern include *Calommata transvaalica* Hewitt, 1916 (Atypidae) (Figure 3e), which was described in 1916 from Roodeplaat, Gauteng, and is restricted to South Africa. It is presently only known from Gauteng

(few localities around Pretoria) and Limpopo provinces (Soutpansberg and Blouberg) (Fourie et al. 2011). Despite several surveys, the species has so far not been found in intervening areas. The last female was sampled in 1915. Habitat loss in Gauteng because of crop cultivation and urban development is a concern as the species is suspected to occur at fewer than ten locations. *Calommata transvaalica* is therefore listed as Vulnerable under the VU B2ab (i, ii, iii, iv) criterion (IUCN 2001).

Five of the South African spiders of medical importance were sampled from the BB: *Cheiracanthium furculatum* Karsch, 1879 (sac spider); *Hexophthalma hahni* (Karsch, 1878) (six-eyed sand spider, Figure 3j); *Loxosceles simillima* Lawrence, 1927 (violin spider, Figure 3i) and two button spiders, *Latrodectus geometricus* C.L.Koch, 1841 and *L. renivulvatus* Dahl, 1902 (Figure 3f).

Conclusion

Although no species are endemic to the Blouberg, the mountain harbours several unidentified taxa. Five species recorded in the study are restricted to Limpopo province, all of which have a small distribution range and are therefore of special concern. These five species were all recorded from deep sandy soils on the foothills of the mountain, pointing to the importance of this habitat for spider conservation. The small number of national records (< 4 per species) limits our ability to extrapolate their distribution beyond their current range. The conservation importance of this habitat is further supported by the recent discovery of the endemic darkling beetle *Anaxius bloubergensis* Kamiński & Schoeman 2018 from the Blouberg Nature Reserve. As more than 90% of collecting effort was concentrated on the foothills of the mountain, future studies should focus on the higher elevations of the mountain, as the majority of newly discovered and endemic species on the neighbouring Soutpansberg, are found at higher elevations (Foord et al. 2008). The biggest threats to spider diversity in the region are climate change, the removal of Afromontane forests on the eastern aspect of the mountain, and increased urbanisation and agricultural activities on the foothills of the mountain.

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Competing interests

The authors declare that they have no financial or personal relationships that may have inappropriately influenced them in writing this article.

Authors' contributions

S.F. undertook and organised the SANSA survey and assist in writing up the article. A.S.D.-S. is the SANSA project manager; she did most of the identifications, conservation assessment and wrote the first draft of the article. C.R.H. is the SANSA assistant project manager who assists with the identification of some families and editing of the article. C.S. undertook part of the surveys. N.H. undertook part of the survey and assisted on the biodiversity aspects of this article. R.L. assisted with the curation and databasing of the sampled material.

Ethical considerations

Animals were collected under permit no. CPM-005-00005, provided by the Department of Environmental Affairs, South Africa.

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Data availability statement

Data sharing is not applicable to this article as no new data were created or analysed in this study.

Disclaimer

The views and opinions expressed in this article are those of the authors and do not necessarily reflect the official policy or position of any affiliated agency of the authors.

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Appendix starts on the next page →

Appendix 1

TABLE 1-A1: Checklist of the spiders of Blouberg showing endemicity value (EV), conservation status (CS) and distribution (Dist).

Family	Species	EV	CS	Dist
Agelenidae	<i>Agelena gaerdesi</i> Roewer, 1955	2	LC	STHE
	<i>Benoitia</i> sp. 4 (new)	NE	-	-
	<i>Benoitia ocellata</i> (Pocock, 1900)	1	LC	AE
	<i>Mistaria leucopyga</i> (Pavesi, 1883)	1	LC	AE
	<i>Olorunia punctata</i> Lehtinen, 1967	1	LC	AE
Amaurobiidae	<i>Chresiona invalida</i> (Simon, 1898)	3	LC	SAE
Ammoxenidae	<i>Ammoxenus daedalus</i> Dippenaar & Meyer, 1980	5	DD	SAE-LE
	<i>Ammoxenus psammadromus</i> Simon, 1910	2	LC	STHE
	<i>Rastellus florisbad</i> Platnick & Griffen, 1990	3	DD	SAE
Araneidae	<i>Araneus apricus</i> (Karsch, 1884)	1	LC	AE
	<i>Araneus holzapfelae</i> Lessert, 1936	1	LC	AE
	<i>Araneus legonensis</i> Grasshoff & Edmunds, 1979	1	LC	AE
	<i>Argiope australis</i> (Walckenaer, 1805)	1	LC	AE
	<i>Caerostris sexcuspidata</i> (Fabricius, 1793)	1	LC	AE
	<i>Cyclosa elongatus</i> (Lawrence, 1947)	3	LC	SAE
	<i>Cyphalonatus larvatus</i> (Simon, 1881)	1	LC	AE
	<i>Cyrtophora citricola</i> (Forskål, 1775)	0	LC	C
	<i>Hyposinga albobillata</i> (Westring, 1851)	0	LC	AE
	<i>Hyposinga lithyphantoides</i> Caporiacco, 1947	1	LC	AE
	<i>Hyposinga pygmaea</i> (Sundevall, 1831)	0	LC	C
	<i>Isoxya semiflava</i> Simon, 1887	1	LC	AE
	<i>Nemoscolus cotti</i> Lessert, 1933	2	LC	STHE
	<i>Nemoscolus tubicola</i> (Simon, 1887)	2	LC	STHE
	<i>Nemoscolus</i> sp. (new)	NE	-	-
	<i>Neoscona blondeli</i> (Simon, 1885)	1	LC	AE
	<i>Neoscona subfusca</i> (C.L. Koch, 1837)	1	LC	AE
	<i>Neoscona triangula</i> (Keyserling, 1864)	1	LC	AE
	<i>Nephila fenestrata</i> Thorell, 1859	2	LC	STHE
	<i>Nephila senegalensis annulata</i> (Walckenaer, 1842)	2	LC	STHE
	<i>Pararaneus cyrtoscapus</i> (Pocock, 1898)	1	LC	AE
	<i>Prasonica seriata</i> Simon, 1895	1	LC	AE
	<i>Pycnacantha tribulus</i> (Fabricius, 1781)	2	LC	STHE
	<i>Ursa turbinata</i> Simon, 1895	3	LC	SAE
	Araneidae sp. 6 (undetermined)	NE	-	-
	Araneidae sp. 7 (undetermined)	NE	-	-
	Atypidae	<i>Calommata transvaalica</i> Hewitt, 1916	4	VU
Barychelidae	<i>Pisenor arcturus</i> (Tucker, 1917)	2	LC	STHE
	<i>Pisenor notius</i> Simon, 1889	1	LC	AE
	<i>Sipalolasma humicola</i> (Benoit, 1965)	1	LC	AE
Caponiidae	<i>Caponia chelifera</i> Lessert, 1936	2	LC	STHE
Cheiracanthiidae	<i>Cheiracanthium angolensis</i> Lotz, 2007	2	LC	STHE
	<i>Cheiracanthium furculatum</i> Karsch, 1879	1	LC	AE
	<i>Cheiracanthium schenkeli</i> Caporiacco, 1949	1	LC	AE
	<i>Cheiracanthium vansoni</i> Lawrence, 1936	1	LC	AE
	<i>Cheiramiona krugerensis</i> Lotz, 2002	3	LC	SAE
	<i>Cheiramiona paradisis</i> Lotz, 2002	2	LC	STHE
	<i>Clubionidae</i>	<i>Clubiona abbajensis</i> Strand, 1906	1	LC
Corinnidae	<i>Coenoptychus tropicalis</i> (Haddad, 2004)	1	LC	AE
	<i>Cambalida dippenaarae</i> Haddad, 2012	1	LC	AE
	<i>Copa flavoplumosa</i> Simon, 1885	1	LC	AE
	<i>Vendaphaea lajuma</i> Haddad, 2009	5	DD	SAE-LE
Ctenidae	<i>Ctenus pulchriiventris</i> (Simon, 1896)	2	LC	STHE
	<i>Ctenus transvaalensis</i> Benoit, 1981	3	LC	SAE
Cyatholipidae	<i>Cyatholipus isolatus</i> Griswold, 1987	4	DD	SAE
Cyrtachaeniidae	<i>Ancylotrypa brevipalpis</i> (Hewitt, 1916)	3	LC	SAE
Deinopidae	<i>Menneus camelus</i> Pocock, 1902	3	LC	SAE
Dictynidae	<i>Archaeodictyna ulova</i> Griswold & Meikle-Griswold, 1987	3	LC	SAE
	<i>Dictyna</i> sp. 1 (undetermined)	NE	-	-
	<i>Mashimo leleupi</i> Lehtinen, 1967	1	LC	AE

Table 1-A1 continues on the next page →

TABLE 1-A1 (Continues...): Checklist of the spiders of Blouberg showing endemicity value (EV), conservation status (CS) and distribution (Dist).

Family	Species	EV	CS	Dist
Dipluridae	<i>Allothele malawi</i> Coyle, 1984	1	LC	AE
	<i>Thelechoris striatipes</i> (Simon, 1889)	1	LC	AE
Eresidae	<i>Dresserus colsoni</i> Tucker, 1920	3	LC	SAE
	<i>Gandanameno fumosa</i> (C. L. Koch, 1837)	3	LC	SAE
	<i>Paradonea parva</i> (Tucker, 1920)	2	LC	STHE
	<i>Paradonea presleyi</i> Miller et al., 2012	2	LC	STHE
	<i>Stegodyphus africanus</i> (Blackwall, 1866)	1	LC	AE
Gnaphosidae	<i>Aneplasa interrogationis</i> Tucker, 1923	3	DD	SAE
	<i>Asemesthes ceresicola</i> Tucker, 1923	3	LC	SAE
	<i>Asemesthes numisma</i> Tucker, 1923	2	LC	STHE
	<i>Asemesthes pallidus</i> Purcell, 1908	3	LC	SAE
	<i>Asemesthes paynteri</i> Tucker, 1923	3	LC	SAE
	<i>Asemesthes purcelli</i> Tucker, 1923	2	LC	STHE
	<i>Asemesthes reflexus</i> Tucker, 1923	3	LC	SAE
	<i>Camillina cordifera</i> (Tullgren, 1910)	1	LC	AE
	<i>Camillina pavesii</i> (Simon, 1897)	1	LC	AE
	<i>Echemus erutus</i> Tucker, 1923	2	LC	STHE
	<i>Ibala arcus</i> (Tucker, 1923)	2	LC	STHE
	<i>Ibala bilinearis</i> (Tucker, 1923)	2	LC	STHE
	<i>Leptodrassex</i> sp. 1 (new)	NE	-	-
	<i>Nomisia tubula</i> (Tucker, 1923)	2	LC	STHE
	<i>Nomisia varia</i> (Tucker, 1923)	2	LC	STHE
	<i>Odontodrassex aphanes</i> (Thorell, 1897)	0	LC	C
	<i>Pterotrichia auris</i> (Tucker, 1923)	2	LC	STHE
	<i>Scotophaeus marleyi</i> Tucker, 1923	3	LC	SAE
	<i>Trephopoda parvipalpa</i> (Tucker, 1923)	2	LC	STHE
	<i>Trephopoda</i> sp. 2 (new)	NE	-	-
	<i>Xerophaeus aurariarum</i> Purcell, 1907	2	LC	STHE
	<i>Xerophaeus</i> sp. (new)	NE	-	-
	<i>Zelotes bastardi</i> (Simon, 1896)	1	LC	AE
	<i>Zelotes caldarius</i> (Purcell, 1907)	2	LC	STHE
	<i>Zelotes chinguli</i> Fitzpatrick, 2007	2	LC	STHE
	<i>Zelotes corrugatus</i> (Purcell, 1907)	1	LC	AE
	<i>Zelotes fuligineus</i> (Purcell, 1907)	1	LC	AE
<i>Zelotes lavus</i> Tucker, 1923	2	LC	STHE	
<i>Zelotes natalensis</i> Tucker, 1923	2	LC	STHE	
<i>Zelotes pallidipes</i> Tucker, 1923	2	LC	STHE	
<i>Zelotes scrutatus</i> (O.P.-Cambridge, 1872)	1	LC	AE	
<i>Zelotes tuckeri</i> Roewer, 1951	1	LC	AE	
Hersiliidae	<i>Hersilia arborea</i> Lawrence, 1928	2	LC	STHE
	<i>Hersilia sericea</i> Pocock, 1898	1	LC	AE
	<i>Hersilia setifrons</i> Lawrence, 1928	2	LC	STHE
Idiopidae	<i>Ctenolophus fenoulheti</i> Hewitt, 1913	3	LC	SAE
	<i>Ctenolophus</i> sp. 2 (new)	NE	-	-
	<i>Ctenolophus</i> sp. 3 (new)	NE	-	-
	<i>Galeosoma vandami</i> Hewitt, 1915	5	LC	SAE-LE
	<i>Idiops castaneus</i> Hewitt, 1913	4	DD	SAE
<i>Segregara paucispinulosus</i> (Hewitt, 1915)	5	DD	SAE-LE	
Linyphiidae	<i>Agyneta habra</i> (Locket, 1968)	1	LC	AE
	<i>Agyneta natalensis</i> (Jocqué, 1984)	3	LC	SAE
	<i>Mecynidis dentipalpis</i> Simon, 1894	2	LC	STHE
	<i>Metaleptyphantes perexiguus</i> (Simon & Fage, 1922)	1	LC	AE
	<i>Pelecopsis janus</i> Jocqué, 1984	2	LC	STHE
	<i>Tybaertiella krugeri</i> (Simon, 1894)	1	LC	AE
<i>Erigoninae</i> sp. 1 (undetermined)	NE	-	-	
Liocranidae	<i>Rhaeboctesis exilis</i> Tucker, 1920	3	LC	SAE
	<i>Rhaeboctesis trinotatus</i> Tucker, 1920	2	LC	STHE
Lycosidae	<i>Allocosa exserta</i> Roewer, 1959	2	LC	STHE
	<i>Allocosa lawrencei</i> (Roewer, 1951)	2	LC	STHE
	<i>Allocosa umtalica</i> (Purcell, 1903)	1	LC	AE
	<i>Evipomma</i> sp. (new)	NE	-	-

Table 1-A1 continues on the next page →

TABLE 1-A1 (Continues...): Checklist of the spiders of Blouberg showing endemicity value (EV), conservation status (CS) and distribution (Dist).

Family	Species	EV	CS	Dist
	<i>Evipomma squamulatum</i> (Simon, 1898)	2	LC	STHE
	<i>Foveosa foveolata</i> (Purcell, 1903)	1	LC	AE
	<i>Hippasa australis</i> Lawrence, 1927	1	LC	AE
	<i>Hippasa elienae</i> Alderweireldt & Jocqué, 2005	1	LC	AE
	<i>Hogna bimaculata</i> (Purcell, 1903)	2	LC	STHE
	<i>Hogna spenceri</i> (Pocock, 1898)	1	LC	AE
	<i>Hogna transvaalica</i> (Simon, 1898)	3	LC	SAE
	<i>Minicosa neptuna</i> Alderweireldt & Jocqué, 2007	3	LC	STHE
	<i>Ocyale guttata</i> (Karsch, 1878)	1	LC	AE
	<i>Pardosa crassipalpis</i> Purcell, 1903	1	LC	AE
	<i>Pardosa leipoldti</i> Purcell, 1903	2	LC	STHE
	<i>Pardosa manubriata</i> Simon, 1898	2	LC	STHE
	<i>Proevippa albiventris</i> (Simon, 1898)	2	LC	STHE
	<i>Proevippa fascicularis</i> (Purcell, 1903)	2	LC	STHE
	<i>Proevippa wanlessi</i> (Russell-Smith, 1981)	3	LC	SAE
	<i>Trabea heterocolata</i> Strand, 1913	1	LC	AE
	<i>Trabea purcelli</i> Roewer, 1951	1	LC	AE
	<i>Zenonina albocaudata</i> Lawrence, 1952	3	LC	SAE
	Lycosinae sp. 1 (undetermined)	NE	-	-
	Trochosinae sp. 1 (undetermined)	NE	-	-
Mimetidae	<i>Ero lawrencei</i> Unzicker, 1966	2	LC	-
	<i>Mimetes</i> sp. 1 (new)	NE	-	-
Mysmenidae	<i>Isela</i> sp. 1 (undetermined)	NE	-	-
Nemesiidae	<i>Hermacha mazoena</i> Hewitt, 1915	2	LC	STHE
	<i>Hermacha</i> sp. 2 (new)	NE	-	-
Oecobiidae	<i>Uroecobius ecribellatus</i> Kullmann & Zimmermann, 1976	3	LC	SAE
Oonopidae	<i>Gamasomorpha australis</i> Hewitt, 1915	3	LC	SAE
Oxyopidae	<i>Hamataliwa kulczynskii</i> (Lessert, 1915)	1	LC	AE
	<i>Hamataliwa rufocaligata</i> Simon, 1898	1	LC	AE
	<i>Hamataliwa strandi</i> (Lessert, 1923)	2	LC	STHE
	<i>Oxyopes bonneti</i> Lessert, 1933	2	LC	STHE
	<i>Oxyopes dumanti</i> Vinson, 1863	1	LC	AE
	<i>Oxyopes falconeri</i> Lessert, 1915	1	LC	AE
	<i>Oxyopes flavipalpis</i> (Lukas, 1858)	1	LC	AE
	<i>Oxyopes hoggi</i> Lessert, 1915	1	LC	AE
	<i>Oxyopes jacksoni</i> Lessert, 1915	1	LC	AE
	<i>Oxyopes longispinosus</i> Lawrence, 1938	3	LC	AE
	<i>Oxyopes pallidecoloratus</i> Strand, 1906	1	LC	AE
	<i>Oxyopes russoi</i> Caporiacco, 1940	1	LC	AE
	<i>Oxyopes schenkeli</i> Lessert, 1927	1	LC	AE
	<i>Oxyopes</i> sp. 3 (undetermined)	NE	-	-
	<i>Oxyopes</i> sp. 4 (undetermined)	NE	-	-
	<i>Peucetia crucifera</i> Lawrence, 1927	2	LC	STHE
Palpimanidae	<i>Diaphorocellus biplagiatus</i> Simon, 1893	2	LC	STHE
	<i>Palpimanus pseudarmatus</i> Lawrence, 1952	3	LC	SAE
	<i>Palpimanus transvaalicus</i> Simon, 1893	3	LC	SAE
Philodromidae	<i>Gephyrota glauca</i> (Jézéquel, 1966)	1	LC	AE
	<i>Hirriusa variegata</i> (Simon, 1895)	3	LC	SAE
	<i>Philodromus bigibbus australis</i> Lawrence, 1928	3	LC	SAE
	<i>Philodromus browningi</i> Lawrence, 1952	2	LC	STHE
	<i>Philodromus guineensis</i> Millot, 1941	1	LC	AE
	<i>Philodromus</i> sp. 1 (undetermined)	NE	-	-
	<i>Suemus punctatus</i> Lawrence, 1938	2	LC	STHE
	<i>Thanatus dorsilineatus</i> Jézéquel, 1964	1	LC	AE
	<i>Thanatus vulgaris</i> Simon, 1870	0	LC	C
	<i>Tibellus australis</i> (Simon, 1910)	2	LC	STHE
	<i>Tibellus cobusi</i> Van den Berg & Dippenaar-Schoeman, 1994	1	LC	AE
	<i>Tibellus minor</i> Lessert, 1919	1	LC	AE
	gen. n. sp. n. (nw)	NE	-	-

Table 1-A1 continues on the next page →

TABLE 1-A1 (Continues...): Checklist of the spiders of Blouberg showing endemicity value (EV), conservation status (CS) and distribution (Dist).

Family	Species	EV	CS	Dist
Pholcidae	<i>Quamtana hectori</i> Huber, 2003	3	LC	SAE
	<i>Smeringopus natalensis</i> Lawrence, 1947	2	LC	STHE
	<i>Spermophora</i> sp. 1 (immature)	NE	-	-
Pisauridae	<i>Afropisaura rothiformis</i> (Strand, 1908)	1	LC	AE
	<i>Euprosthennops australis</i> Simon, 1898	1	LC	AE
	<i>Euprosthennopsis vuattouxi</i> Blandin, 1977	1	LC	AE
	<i>Maypacijs roeweri</i> Blandin, 1975	1	LC	AE
	<i>Nilus margaritatus</i> (Pocock, 1898)	1	LC	AE
	<i>Nilus massajae</i> (Pavesi, 1883)	1	LC	AE
Prodidomidae	<i>Austrodomus scaber</i> (Purcell, 1904)	2	LC	STHE
	<i>Prodidomus capensis</i> Purcell, 1904	3	LC	SAE
	<i>Theuma fusca</i> Purcell, 1907	2	LC	STHE
	<i>Theuma maculata</i> Purcell, 1907	2	LC	STHE
	<i>Theuma</i> sp. 1 (undetermined)	NE	-	-
Salticidae	Aelurullinae sp. (new)	NE	-	-
	<i>Afraflacilla altera</i> (Wesołowska, 2000)	2	LC	STHE
	<i>Asemonea clara</i> Wesołowska & Haddad, 2013	3	LC	SAE
	<i>Bianor albobimaculatus</i> (Lucas, 1846)	0	LC	C
	<i>Cyrba lineata</i> Wanless, 1984	2	LC	STHE
	<i>Cyrba nigrimana</i> Simon, 1900	3	LC	SAE
	<i>Evarcha ignea</i> Wesołowska & Cumming, 2008	1	LC	AE
	<i>Evarcha prosimilis</i> Wesołowska & Cumming, 2008	1	LC	AE
	<i>Hasarinella distincta</i> Haddad & Wesołowska, 2013	4	LC	SAE
	<i>Heliophanus deamatus</i> Peckham & Peckham, 1903	2	LC	STHE
	<i>Heliophanus proszynski</i> Wesołowska, 2003	2	LC	STHE
	<i>Heliophanus trepidus</i> Simon, 1910	2	LC	STHE
	<i>Holcolaetis zuluensis</i> Lawrence, 1937	1	LC	AE
	<i>Hyllus argyrotroxus</i> Simon, 1902	1	LC	AE
	<i>Hyllus brevitarsis</i> Simon, 1902	1	LC	AE
	<i>Hyllus dotatus</i> (Peckham & Peckham, 1903)	1	LC	AE
	<i>Hyllus treleaveni</i> Peckham & Peckham, 1902	1	LC	AE
	<i>Iranattus principalis</i> Wesołowska 2000	1	LC	AE
	<i>Menemerus eburnensis</i> Berland & Millot, 1941	1	LC	AE
	<i>Menemerus fagei</i> Berland & Millot, 1941	1	LC	AE
	<i>Menemerus minshullae</i> Wesołowska, 1999	1	LC	AE
	<i>Menemerus zimbabwensis</i> Wesołowska, 1999	2	LC	STHE
	<i>Mexcala elegans</i> Peckham & Peckham, 1903	1	LC	AE
	<i>Myrmarachne ichneumon</i> Simon, 1886	1	LC	AE
	<i>Natta horizontalis</i> Karsch, 1879	1	LC	AE
	<i>Pachyballus transversus</i> Simon, 1900	1	LC	AE
	<i>Pellenes bulawayoensis</i> Wesołowska, 1999	2	LC	STHE
	<i>Pellenes tharinae</i> Wesołowska, 2006	2	LC	STHE
	<i>Phintella lajuma</i> Haddad & Wesołowska, 2013	3	DD	SAE
	<i>Phlegra simplex</i> Wesołowska & Russell-Smith, 2000	1	LC	AE
	<i>Phlegra varia</i> Wesołowska & Russel-Smith, 2000	1	LC	AE
	<i>Phlegra procera</i> Wesołowska & Cumming, 2008	2	LC	STHE
	<i>Pignus simoni</i> (Peckham & Peckham 1903)	2	LC	STHE
	<i>Portia schultzi</i> Karsch, 1878	1	LC	AE
	<i>Rhene</i> sp. 1 (new)	NE	-	-
	<i>Stenaelurillus guttiger</i> (Simon, 1901)	2	LC	STHE
	<i>Thyene inflata</i> (Gerstaecker, 1873)	1	LC	AE
	<i>Thyene natalii</i> Peckham & Peckham, 1903	1	LC	AE
	<i>Thyene ogdeni</i> Peckham & Peckham, 1903	1	LC	AE
	<i>Thyene semiargentea</i> (Simon, 1884)	1	LC	AE
	<i>Thyene thyenioides</i> (Lessert, 1925)	1	LC	AE
	<i>Thyenula fidelis</i> Wesołowska & Haddad, 2009	2	LC	STHE
	<i>Thyenula oranjensis</i> Wesołowska, 2001	3	LC	SAE
	<i>Thyenula sempiterna</i> Wesołowska, 2000	2	LC	STHE
	<i>Tomomingi szutsi</i> Wesołowska & Haddad, 2013	4	DD	SAE
	<i>Tusitala barbata</i> Peckham & Peckham, 1902	1	LC	AE

Table 1-A1 continues on the next page →

TABLE 1-A1 (Continues...): Checklist of the spiders of Blouberg showing endemicity value (EV), conservation status (CS) and distribution (Dist).

Family	Species	EV	CS	Dist
Scytodidae	<i>Scytodes caffra</i> Purcell, 1904	1	LC	AE
	<i>Scytodes clavata</i> Benoit, 1965	1	LC	AE
	<i>Scytodes maritima</i> Lawrence, 1938	3	LC	SAE
	<i>Scytodes quinqu</i> Lawrence, 1927	2	LC	STHE
	<i>Scytodes thoracica</i> (Latreille, 1802)	0	LC	C
Segestriidae	<i>Ariadna bilineata</i> Purcell, 1904	3	LC	SAE
	<i>Ariadna</i> sp. 2 (new)	NE	-	-
Selenopidae	<i>Anyphops barbertonensis</i> (Lawrence, 1940)	1	LC	AE
	<i>Anyphops leleupi</i> Benoit, 1972	4	LC	SAE
	<i>Anyphops lochiel</i> Corronca, 2000	4	DD	SAE
	<i>Selenops brachycephalus</i> Lawrence, 1940	2	LC	STHE
	<i>Selenops lesnei</i> Lessert, 1936	1	LC	AE
	<i>Selenops tenebrosus</i> Lawrence, 1940	2	LC	STHE
Sicariidae	<i>Hexophthalma hahni</i> (Karsch, 1878)	2	LC	STHE
	<i>Loxosceles simillima</i> Lawrence, 1927	1	LC	AE
Sparassidae	<i>Eusparassus jaegeri</i> Moradmand, 2013	2	LC	STHE
	<i>Olios chubbi</i> Lessert, 1923	2	LC	STHE
	<i>Olios correvoni nigrifrons</i> Lawrence, 1928	1	LC	AE
	<i>Olios freyi</i> Lessert, 1929	1	LC	AE
	<i>Olios</i> sp. 3 (undetermined)	NE	-	-
	<i>Pseudomicrommata longipes</i> (Bösenberg & Lenz, 1895)	1	LC	AE
Tetragnathidae	<i>Leucauge levanderi</i> (Kulczynski, 1901)	1	LC	AE
	<i>Meta meruensis</i> Tullgren, 1910	1	LC	AE
	<i>Tetragnatha boydi</i> O.P.-Cambridge, 1898	0	LC	C
Theraphosidae	<i>Ceratogyrus darlingi</i> Pocock, 1897	2	LC	STHE
	<i>Harpactirella overdijki</i> Gallon, 2010	3	LC	SAE
Theridiidae	<i>Anelosimus nelsoni</i> Agnarsson, 2006	3	LC	SAE
	<i>Archaearanea</i> sp. 1 (undetermined)	NE	-	-
	<i>Argyrodes zonatus</i> (Walckenaer, 1842)	1	LC	AE
	<i>Chorizopella tragardi</i> Lawrence, 1947	3	LC	SAE
	<i>Coleosoma blandum</i> O.P.-Cambridge, 1882	0	C	-
	<i>Coscinda tibialis</i> Simon, 1898	0	C	-
	<i>Episinus bilineatus</i> Simon, 1894	2	LC	STHE
	<i>Episinus</i> sp. 1 (new)	NE	-	-
	<i>Euryopsis episinoides</i> (Walckenaer, 1847)	0	LC	C
	<i>Euryopsis funebris</i> (Hentz, 1850)	0	LC	C
	<i>Latrodectus geometricus</i> C.L. Koch, 1841	0	LC	C
	<i>Latrodectus renivulvatus</i> Dahl, 1902	1	LC	AE
	<i>Phoroncidia eburnea</i> (Simon, 1885)	3	LC	SAE
	<i>Phycosoma martinae</i> (Roberts, 1983)	0	LC	C
	<i>Phycosoma</i> sp. 1 (undetermined)	NE	-	-
	<i>Rhomphaea nasica</i> (Simon, 1873)	0	LC	C
	<i>Steatoda capensis</i> Hann, 1990	0	LC	C
	<i>Theridion piliphilum</i> Strand, 1907	3	LC	SAE
	<i>Theridion purcelli</i> O.P.-Cambridge, 1904	3	LC	SAE
	<i>Theridion</i> sp. 3 (undetermined)	NE	-	-
<i>Thwaitesia</i> sp. 1 (undetermined)	NE	-	-	
<i>Thymoites</i> sp. 1 (undetermined)	NE	-	-	
<i>Tidarren cuneolatum</i> (Tullgren, 1910)	1	LC	AE	
Thomisidae	<i>Ansiae tuckeri</i> (Lessert, 1919)	1	LC	AE
	<i>Diaea puncta</i> Karsch, 1884	1	LC	AE
	<i>Heriaeus peterwebbi</i> Van Niekerk & Dippenaar-Schoeman, 2013	2	LC	STHE
	<i>Misumenops rubrodecoratus</i> Millot, 1941	1	LC	AE
	<i>Monaeses austrinus</i> Simon, 1910	1	LC	AE
	<i>Mystaria savannensis</i> Lewis & Dippenaar-Schoeman, 2014	1	LC	AE
	<i>Oxytate argenteooculata</i> (Simon, 1886)	1	LC	AE
	<i>Ozyptila caenosa</i> Jézéquel, 1966	1	LC	AE
	<i>Parasmodix quadrituberculata</i> Jézéquel, 1966	1	LC	AE
	<i>Pherecydes lucinae</i> Dippenaar-Schoeman, 1980	3	LC	SAE
	<i>Runcinia flavida</i> Simon, 1881	0	LC	C
	<i>Simorcus cotti</i> Lessert, 1936	1	LC	AE

Table 1-A1 continues on the next page →

TABLE 1-A1 (Continues...): Checklist of the spiders of Blouberg showing endemism value (EV), conservation status (CS) and distribution (Dist).

Family	Species	EV	CS	Dist
	<i>Smodicinus coroniger</i> Simon, 1895	1	LC	AE
	<i>Stiphropus bisigillatus</i> Lawrence, 1952	2	LC	STHE
	<i>Synema decens</i> (Karsch, 1878)	2	LC	STHE
	<i>Synema imitator</i> (Pavesi, 1883)	1	LC	AE
	<i>Synema langheldi</i> Dahl, 1907	1	LC	AE
	<i>Thomisops pupa</i> Karsch, 1879	1	LC	AE
	<i>Thomisus australis</i> Comellini, 1957	1	LC	AE
	<i>Thomisus citrinellus</i> Simon, 1875	0	LC	C
	<i>Thomisus congoensis</i> Comellini, 1957	1	LC	AE
	<i>Thomisus daradioides</i> Simon, 1890	0	LC	C
	<i>Thomisus granulatus</i> Karsch, 1880	1	LC	AE
	<i>Thomisus kalaharinus</i> Lawrence, 1936	1	LC	AE
	<i>Thomisus machadoi</i> Comellini, 1959	1	LC	AE
	<i>Thomisus scrupeus</i> (Simon, 1886)	1	LC	AE
	<i>Tmarus africanus</i> Lessert, 1919	1	LC	AE
	<i>Tmarus cameliformis</i> Millot, 1942	1	LC	AE
	<i>Tmarus comellinii</i> Garcia-Neto, 1989	1	LC	AE
	<i>Tmarus planetarius</i> Simon, 1903	1	LC	AE
	<i>Xysticus natalensis</i> Lawrence, 1938	2	LC	STHE
Trachelidae	<i>Afroseto martini</i> (Simon, 1897)	2	LC	STHE
	<i>Fuchiba aquilonia</i> Haddad & Lyle, 2008	2	LC	STHE
	<i>Jocquestus schenkeli</i> (Lessert, 1923)	1	LC	AE
	<i>Orthobula radiata</i> Simon, 1897	1	LC	AE
	<i>Thysanina serica</i> Simon, 1910	2	LC	STHE
	<i>Thysanina transversa</i> Lyle & Haddad, 2006	3	LC	SAE
Trochanteriidae	<i>Platyoides walteri</i> (Karsch, 1886)	1	LC	AE
Uloboridae	<i>Hyptiotes ackermani</i> Wiehle, 1964	3	LC	SAE
	<i>Miagrammopes brevicaudus</i> O.P.-Cambridge, 1882	2	LC	STHE
	<i>Philoponella angolensis</i> (Lessert, 1933)	1	LC	AE
	<i>Uloborus plumipes</i> Lucas, 1846	0	LC	C
	<i>Zosis geniculata</i> (Olivier, 1789)	0	LC	C
Zodariidae	<i>Ballomma neethlingi</i> Jocqué & Henrard, 2015	5	DD	SAE-LE
	<i>Caesetius inflatus</i> Jocqué, 1991	1	LC	AE
	<i>Capheris crassimana</i> (Simon, 1887)	2	LC	STHE
	<i>Capheris decorata</i> Simon, 1904	1	LC	AE
	<i>Chariobos cylindriceus</i> Simon, 1893	1	LC	AE
	<i>Cydrela schoemanae</i> Jocqué, 1991	3	LC	SAE
	<i>Cydrela spinifrons</i> Hewitt, 1915	3	DD	SAE
	<i>Diores auricula</i> Tucker, 1920	2	LC	STHE
	<i>Diores lesserti</i> Lawrence, 1952	3	LC	STHE
	<i>Diores magicus</i> Jocqué & Dippenaar-Schoeman, 1992	2	LC	STHE
	<i>Diores recurvatus</i> Jocqué, 1990	2	LC	STHE
	<i>Heradida bicincta</i> Simon, 1910	2	LC	STHE
	<i>Ranops caprivi</i> Jocqué, 1991	2	LC	STHE
	<i>Ranops</i> sp. 1 (new)	NE	-	-
	<i>Systemoplacis fagei</i> (Lawrence, 1936)	3	LC	SAE

Note: Endemism: six endemism categories, ranging from: 6 = endemic-known only from type locality/one locality only; 5 = known from one province only (SAE-LE); 4 = known from two adjoining provinces only; 3 = South Africa endemic SAE > 2 provinces or not adjoining; 2 = southern Africa (STHE); 1 = Afrotropical Region (AE); 0 = Africa and beyond (C).

NE, Not Evaluated; DD, Data Deficient; LC, Least Concern; VU, Vulnerable; AE, Afrotropical Region Endemics; SAE-LE, South African endemic known from the Limpopo province; SAE, Southern Africa Endemics; STHE, Southern Africa Endemics south of Zambezi and Kunene Rivers; CS, conservation status; EV, endemism value; Dist., distribution.