South African National Survey of Arachnida (SANSA): Solifugae (sun-spiders) of the national parks and reserves of South Africa (Arachnida, Solifugae)

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As part of the South African National Survey of Arachnida (SANSA) surveys are underway to determine the diversity of the Arachnida fauna of South Africa. One such project is to make an inventory of the arachnids in protected areas. This paper reports on the present status of Solifugae (sun-spiders) in conserved areas. South Africa has a rich fauna of Solifugae, represented by 146 species. Of these species, 46 (31.5%) are protected in South African national parks, reserves or wilderness areas.

Key words: Arachnida, check list, national parks, Solifugae, South Africa, South African National Survey of Arachnida (SANSA).

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Introduction

As part of the South African National Survey of Arachnida (SANSA) inventories are underway to determine the diversity of the South African Arachnida fauna (Dippenaar-Schoeman & Craemer 2000). Several SANSA projects are in progress, including inventories of the arachnid faunas of protected areas. One such project is an inventory of the Solifugae (sun spiders) from protected areas. Meaningful conservation can not take place if the species involved are not known.

The Solifugae, an order of the Arachnida, are also known as sun-spiders, wind-scorpions, camel-spiders or romans. They are known from tropical, subtropical and arid environments in southern Europe, Africa, Asia and the Americas (Punzo 1998). A total of 1075 species from 12 families is presently known (Harvey 2003). South Africa has a rich fauna of sun-spiders, with 150 known species represented by six families (Dippenaar-Schoeman 2002). This represents about 14% of the world’s fauna. Of these species, 107 (74%) are endemic to South Africa (Dippenaar-Schoeman 2002). Little is still known about the conservation status of the sun-spiders in South Africa and no red list is available. In an earlier paper on the fauna of South Africa, Lawrence (1955) indicates that some species have very restricted and localised distributions. This was supported by Griffin (1990), who found that most sun-spiders appear to have very restricted ranges and may be habitat dependent. Thus, it is important not only to consider the conservation of the sun-spiders alone, but also of their habitats, particularly in the case of locally distributed species.

The first inventory of Solifugae in a protected area was made by Lawrence (1964a, 1964b), who recorded 18 species from the Kruger National Park. Lamoral (1973) reported on six species known from the Kalahari Gemsbok National Park (now Kgalagadi Trans-
### Table 1

**List of Solifugae species recorded from protected areas in South Africa.**

| National Parks                        | Solifugae (Heterochemopidae)                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------------------|
| Augrabies National Park               | *Biton* (*Biton*) *cateractus* Lawrence, 1968  
*Blossia* *orangica* (Lawrence, 1935a)*  
*Blossia* *rosea* (Lawrence, 1935a)*  
*Hexisopus* *reticulatus* Purcell, 1902* |
| Kgalagadi Transfrontier Park          | *Biton* (*Biton*) *longisetosus* Lawrence, 1972*  
*Biton* (*Biton*) *schultzei* (Kraepelin, 1908)  
*Biton* (*Biton*) *tenuifalcis* (Lawrence, 1972)*  
*Blossia* *pallideflava* (Lawrence, 1972)*  
*Blossia* *rosea* (Lawrence, 1935a)*  
*Chelypus* *barberi* Purcell, 1902  
*Chelypus* *hirsti* Hewitt, 1915  
*Chelypus* *lennoxae* Hewitt, 1912 |
| Kruger National Park                  | *Biton* (*Biton*) *transvaalensis* Lawrence, 1949*  
*Blossia* *laticosta* Hewitt, 1919  
*Blossia* *singularis* (Lawrence, 1965)*  
*Hemiblossia* *bouvieri* Kraepelin, 1899  
*Solpuga* *conservatum* (Lawrence, 1964)*  
*Solpuga* *truncata* (Lawrence, 1968)*  
*Solpugema* *krugeri* Lawrence, 1964c*  
*Solpugobia* *arenicola* Lawrence, 1964a  
*Zeria* *celeripes* (Hirst, 1911)  
*Zeria* *monteiri* (Pocock, 1895)  
*Zeria* *sericea* (Pocock, 1897)  
*Zeria* *serraticornis* (Purcell, 1899)  
*Zeria* *spiralicornis* (Purcell, 1903)  
*Zeria* *strepsiceros* *nocturna* (Lawrence, 1965)*  
*Zeriassia* *fucicorina* Lawrence, 1929*  
*Zeriassia* *purcelli* Hewitt, 1914  
*Zeriassia* *transvaalensis* Lawrence, 1964b*  
*Zeriassia* *tuseni* Lawrence, 1965 |
| Richtersveld National Park            | *Biton* (*Biton*) *adamanteus* *polytricha* Lawrence, 1972*  
*Biton* (*Biton*) *tenuifalcis* Lawrence, 1962  
*Blossia* *clunigera* Kraepelin, 1908*  
*Blossia* *namaquensis* Purcell, 1902*  
*Solpugema* * genucornis* (Lawrence, 1935b)* |
| Table Mountain National Park          | *Blossia* *litoralis* Purcell, 1903a*  
*Solpuga* *villosa* Purcell, 1899*  
*Solpugema* *vincta* (C.L.Koch, 1842)*  
*Zeria* *fusca* (C.L. Koch, 1842)*  
*Zeria* *schoenlandi* (Pocock, 1900) |
| Other Protected Areas                 |                                                                                           |
| Hluhluwe Game Reserve                 | *Solpuga* *suffusca* Hewitt, 1916                                                          |
| Swartberg Nature Reserve             | *Solpugema* *brachyceras* (Lawrence, 1931)*  
*Solpugema* *cycloceras* (Lawrence, 1931)*                                                    |
| Grootvadersbosch Wilderness Area      | *Solpugema* *phyloclera* (Lawrence, 1929)*                                                   |
| Cedarberg Wilderness Area             |                                                                                           |
| Great Winterhoek Wilderness Area      | *Solpugina* *cervina* (Purcell, 1899)*                                                       |
| Blyde River Nature Reserve           | *Zeria* *carli* (Roewer, 1933)*                                                            |

* South African endemic

Solifugae are more common in warm and arid regions, and twice as many species are found in the western half of South Africa than in the east, with the highest numbers recorded from the Northern Cape Province (Wharton 1981; Dippenaar-Schoeman 2002). Most sun-spiders appear to have very restricted ranges and may be habitat dependent (Dean & Griffin 1993; Griffin 1990). The sun-spiders are solitary animals with a strong antisocial nature. They live in retreats scraped out under rocks and logs. They use their chelicerae to loosen the soil and use their front body and legs to move large amounts of soil around. These retreats are used for resting, ecdysis and the deposition of eggs. They will defend themselves voraciously against their enemies. Because of a lack of venom they use speed and their strong chelicerae to attack. They prey on insects, other arachnids and even reptiles like geckos and lizards.
Table 2
A check list of Solifugae from protected areas in South Africa.
An * following a species name indicates a South African endemic

I. Family Daesiidae Kraepelin, 1899

i. Genus Biton Karsch, 1880

1. Biton (Biton) adamanteus polytricha Lawrence, 1972*
   Lawrence, 1972: 107; Harvey, 2003: 219.
   Type locality: 1.25 km E of Swartpoort (Swartport), Richtersveld, Northern Cape Province.
   Park/reserve: Richtersveld National Park.
   Distribution: South Africa.

2. Biton (Biton) cataractus Lawrence, 1968
   Lawrence, 1968: 59; Wharton, 1981: 16; Harvey, 2003: 222.
   Type locality: Augrabies Falls, Northern Cape Province.
   Park/reserve: Augrabies National Park.
   Distribution: South Africa, Namibia.

3. Biton (Biton) longisetosus Lawrence, 1972*
   Lawrence, 1972: 106; Wharton, 1981: 18; Harvey, 2003: 220.
   Type locality: Twee Rivieren, Kalahari Gemsbok National Park (now Kgalagadi Transfrontier Park), Northern Cape Province.
   Park/reserve: Kgalagadi Transfrontier Park.
   Distribution: South Africa.

4. Biton (Biton) schultzei (Kraepelin, 1908)
   Kraepelin, 1908: 274 (from Daesia); Hewitt, 1919: 54; Lawrence, 1955: 186; 1959: 378; Wharton, 1981: 18; Harvey, 2003: 224.
   Type locality: Khakhea, Botswana.
   Park/reserve: Kgalagadi Transfrontier Park.
   Distribution: Botswana, South Africa.

5. Biton (Biton) tenuifalcis Lawrence, 1962
   Lawrence, 1962: 197; Wharton, 1981: 19; Harvey, 2003: 225.
   Type locality: Twee Rivieren, Kalahari Gemsbok National Park (now Kgalagadi Transfrontier Park), Northern Cape.
   Park/reserve: Kgalagadi Transfrontier Park, Richtersveld National Park.
   Distribution: Namibia, South Africa.

6. Biton (Biton) transvaalensis Lawrence, 1949*
   Lawrence, 1949: 204; 1955: 186; 1964b: 34; 1967: 83; Harvey, 2003: 225.
   Type locality: Great Salt Pan, Waterpoort, Soutpansberg district, Limpopo Province.
   Park/reserve: Kruger National Park (Letaba, Shingwedzi, Mahlakuza Pan).
   Distribution: South Africa.

ii. Genus Blossia Simon, 1880

1. Blossia clunigera Kraepelin, 1908*
   Kraepelin, 1908: 275; Hewitt, 1919a: 59; Lawrence, 1955: 179; Wharton, 1981: 25; Harvey, 2003: 213.
   Type locality: Steinkopf, Northern Cape Province.
   Park/reserve: Richtersveld National Park (Wharton, 1981).
   Distribution: South Africa.

2. Blossia laticosta Hewitt, 1919
   Hewitt, 1919: 64, 59; Lawrence, 1964b: 34; 1955: 181; 1967: 83; Harvey, 2003: 216.
   Type locality: Blauwkop, Soutpansberg District, Limpopo Province.
   Park/reserve: Kruger National Park (Mahlakuza Pan, Orpen Camp, Pumbe, Punda Milia Rest Camp, Malelane Rest Camp, Pafuri, Krokodil Bridge).
   Distribution: South Africa, Israel, Somalia?
3. *Blossia litoralis* Purcell, 1903*

Purcell, 1903a: 4; Hewitt, 1919: 57; Lawrence, 1955: 156; 1962: 201; Harvey, 2003: 216.
Type locality: Duikerklip near Houtbay, Western Cape Province.
Park/reserve: Table Mountain National Park.
Distribution: South Africa.

4. *Blossia namaquensis* Purcell, 1902*

Purcell, 1902: 221; Hewitt, 1919: 56; Lawrence, 1955: 181; Wharton, 1981: 27; Harvey, 2003: 216.
Type locality: Steinkopf, Northern Cape Province.
Parks/reserves: Wharton (1981) recorded it from border of Richtersveld National Park at 28°19′S; 16°58′E.
Distribution: Namibia, South Africa.

5. *Blossia orangica* (Lawrence, 1935)*

Lawrence, 1935a: 78 (from *Blossiola*); 1955: 182; Wharton, 1981: 27; Harvey, 2003: 217.
Type locality: Augrabies Falls, Northern Cape Province.
Parks/reserves: Augrabies National Park.
Distribution: South Africa.

6. *Blossia pallideflava* (Lawrence, 1972)*

Lawrence, 1972: 99 (from *Blossiola*); Wharton, 1981: 27; Harvey, 2003: 217.
Type locality: Twee Rivieren, Kalahari Gemsbok National Park, Northern Cape Province.
Parks/reserves: Kgalagadi Transfrontier Park.
Distribution: South Africa.

7. *Blossia rosea* (Lawrence, 1935)*

Lawrence, 1935a: 76 (from *Blossiola*); 1955: 182; Wharton, 1981: 31; Harvey, 2003: 218.
Type locality: Augrabies Falls, Northern Cape Province.
Parks/reserves: Augrabies National Park; Kgalagadi Transfrontier Park (Twee Rivieren).
Distribution: South Africa.

8. *Blossia singularis* (Lawrence, 1965)*

Lawrence, 1965: 55 (from *Blossiola*); Harvey, 2003: 218.
Type locality: Kruger National Park (Shipale, Punda Maria area) Limpopo Province.
Parks/reserves: Kruger National Park.
Distribution: South Africa.

iii. Genus *Hemiblossia* Kraepelin, 1899

1. *Hemiblossia bouvieri* Kraepelin, 1899

Kraepelin, 1899: 233; Hewitt, 1919: 61; Lawrence, 1953: 959; 1955: 155; 1964b: 34; 1965: 68; Wharton, 1981: 36; Harvey, 2003: 232.
Type locality: Upper Zambezi River, Zambia?
Parks/reserves: Kruger National Park (Hapi Dam, Pafuri).
Distribution: Angola, Kenya, Namibia, South Africa, Zambia, Zimbabwe.

II. Family Hexisopodidae Pocock, 1879

i. Genus *Chelypus* Purcell, 1902

1. *Chelyopus barberi* Purcell, 1902

Purcell, 1902: 224; Hewitt, 1919: 70; Lawrence, 1955: 173; 1959: 378; Lamoral, 1973: 91; Wharton, 1981: 46; Harvey, 2003: 280.
Type locality: Zandkuil, Northern Cape Province.
Parks/reserves: Kgalagadi Transfrontier Park (Mata Mata, Twee Rivieren).
Distribution: Angola, Botswana, Namibia, Zimbabwe, South Africa.
### Table 2 (continued)

2. *Chelypus hirsti* Hewitt, 1915  
Hewitt, 1915: 323; 1919: 70; Lawrence, 1955: 173; 1963: 15; Lamoral, 1973: 90; Wharton, 1981: 46; Harvey, 2003: 281.  
Type locality: Rietfontein, Northern Cape Province.  
Parks/reserves: Kgalagadi Transfrontier Park (Twee Rivieren).  
Distribution: Botswana, Namibia, South Africa.

3. *Chelypus lennoxae* Hewitt, 1912  
Hewitt, 1912: 312; 1919: 70; Lawrence, 1955: 173; Lamoral, 1973: 90; Wharton, 1981: 46; Harvey, 2003: 281.  
Type locality: Upington, Northern Cape Province.  
Parks/reserves: Kgalagadi Transfrontier Park.  
Distribution: Namibia, South Africa.

### ii. Genus *Hexisopus* Karsch, 1879

1. *Hexisopus reticulatus* Purcell, 1902*  
Purcell, 1902: 222; Hewitt, 1919: 69; Lawrence, 1955: 172; Wharton, 1981: 52; Harvey, 2003: 283.  
Type locality: Between Bysteek and Great Falls at Augrabies, Northern Cape Province.  
Parks/reserves: Augrabies National Park.  
Distribution: South Africa.

### III. Family Solpugidae Leach, 1816

i. Genus *Solpuga* Lichtenstein, 1796

1. *Solpuga conservatum* (Lawrence, 1964)*  
Lawrence, 1964a: 529 (from *Solpugopa*); 1964b: 33; 1967: 38; Harvey, 2003: 307.  
Type locality: between Saselandonga Poort and Mahlakuza Pan on eastern boundary, Kruger National Park.  
Parks/reserves: Kruger National Park (between Saselandonga Poort and Mahlakuza Pan, between Mahlakuza and Malanga, Shangoni Koppies, Mwanedzi Dam, Skukuza).  
Distribution: South Africa.

2. *Solpuga suffusca* Hewitt, 1916  
Hewitt, 1916: 217; 1919: 32; Lawrence, 1955: 195; Harvey, 2003: 308.  
Type locality: Hluhluwe Game Reserve, KwaZulu-Natal.  
Parks/reserves: Hluhluwe Game Reserve.  
Distribution: South Africa.

3. *Solpuga truncata* (Lawrence, 1968)*  
Lawrence, 1968: 53 (from *Solpugopa*); Harvey, 2003: 309.  
Type locality: between Shalungwa and Maseya, Kruger National Park.  
Parks/reserves: Kruger National Park.  
Distribution: South Africa.

4. *Solpuga villosa* Purcell, 1899*  
Purcell, 1899: 422; Hewitt, 1919a: 41; Lawrence, 1955: 201; Harvey, 2003: 309.  
Type locality: No exact locality only labelled “S.Africa”.  
Parks/reserves: Tafelberg National Park.  
Distribution: South Africa.

### ii. Genus *Solpugema* Roewer, 1933

1. *Solpugema brachyceras* (Lawrence, 1931)*  
Lawrence, 1931: 132 (from *Solpuga*); 1955: 197; Harvey, 2003: 311.  
Type locality: Swartberg Pass, near Oudtshoorn, Western Cape Province.  
Parks/reserves: Swartberg Nature Reserve.  
Distribution: South Africa.
2. **Solpugema cycloceras** (Lawrence, 1931)*  
   Lawrence, 1931: 131 (from *Solpuga*); 1955: 198; Harvey, 2003: 311.  
   Type locality: Swartberg Pass, near Oudtshoorn, Western Cape Province.  
   Parks/reserves: Swartberg Nature Reserve.  
   Distribution: South Africa.

3. **Solpugema genucornis** (Lawrence, 1935)*  
   Lawrence, 1935b: 505 (from *Solpuga*); 1955: 198; Wharton, 1981: 81; Harvey, 2003: 311.  
   Type locality: Lekkersing, Richtersveld, Northern Cape Province.  
   Parks/reserves: Richtersveld National Park.  
   Distribution: Namibia, South Africa.

4. **Solpugema krugeri** Lawrence, 1964*  
   Lawrence, 1964: 1964b: 33; Harvey, 2003: 313.  
   Type locality: Banks of Sabie River, Kruger National Park.  
   Parks/reserves: Kruger National Park.  
   Distribution: South Africa.

5. **Solpugema phylloceras** (Lawrence, 1929)*  
   Lawrence, 1929: 164; 1955: 200; Harvey, 2003: 313.  
   Type locality: Pocaltsdorp near George, Western Cape Province.  
   Parks/reserves: Grootvadersbosch Wilderness Area.  
   Distribution: South Africa.

6. **Solpugema vincta** (C.L.Koch, 1842)*  
   C.L. Koch, 1842: 352 (as *Solpuga*); Hewitt, 1919: 33; Lawrence, 1929: 178; 1955: 200; Harvey, 2003: 314.  
   Type locality: no exact locality only “Cap”.  
   Parks/reserves: Table Mountain National Park.  
   Distribution: South Africa.

**iii. Genus Solpugiba Roewer, 1934**

1. **Solpugiba arenicola** Lawrence, 1964  
   Lawrence, 1964a: 1964b: 33; 1967: 84; Harvey, 2003: 314.  
   Type locality: Between Shalungwa and Maseya, Kruger National Park.  
   Parks/reserves: Kruger National Park (Sandveld between Shalungwa and Maseya, 1 km S of Tambye Drift near Pafuri, Skukuza Rest Camp, Isweni near Satara).  
   Distribution: South Africa.

**iv. Genus Solpuguna Roewer, 1933**

1 **Solpuguna cervina** (Purcell, 1899)*  
   Purcell, 1899: 415; Hewitt, 1919: 32; Lawrence, 1964a: 531; 1964b; Wharton, 1981: 75; Harvey, 2003: 316.  
   Type locality: Clanwilliam, Western Cape Province.  
   Parks/reserves: Cedarberg Wilderness Area.  
   Distribution: South Africa.

**v. Genus Zeria Simon, 1879**

1. **Zeria antelopicornis** (Lawrence, 1929)*  
   Lawrence, 1929: 153 (from *Solpuga*); 1955: 191; Harvey, 2003: 317.  
   Type locality: Great Winterhoek Mountains, Western Cape Province.  
   Parks/reserves: Great Winterhoek Wilderness Area.  
   Distribution: South Africa.

2. **Zeria carli** (Roewer, 1933)*  
   Roewer, 1933: 461 (from *Solpuga*); Lawrence, 1955: 192; Harvey, 2003: 318.  
   Type locality: near Johannesburg, Gauteng Province.

**Table 2 (continued)**

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*Dippenaar Solifugae.indd 34 2006/10/15 10:53:15 PM*
Parks/reserves: Blyde River Nature Reserve. 
Distribution: South Africa.

3. *Zeria celeripes* (Hirst, 1911)
   Hirst, 1911: 10 (from *Solpuga*); Hewitt, 1919: 31; Lawrence, 1929: 178; 1955: 192; 1964b: 34; 1965: 49; 1967: 82; Harvey, 2003: 318.
   Type locality: Harare, Zimbabwe.
   Parks/reserves: Kruger National Park (Tswiriridam, Nwanetsani Dam, Saselandonga Poort, Mahlakuza Pan, Pretoriuskop, Tshokwane, Pumbe Picket)
   Distribution: Zimbabwe, South Africa.

4. *Zeria fusca* (C.L. Koch, 1842)*
   C.L. Koch, 1842: 352 (from *Solpuga*); Hewitt, 1919: 26; Lawrence, 1929: 179; 1955: 166; Harvey, 2003: 319.
   Type locality: “Cap” no exact locality.
   Parks/reserves: Table Mountain National Park.
   Distribution: South Africa.

5. *Zeria monteiri* (Pocock, 1895)
   Pocock, 1895: 87 (from *Solpuga*); Hewitt, 1919: 27; 1935: 476; Lawrence, 1928: 262; 1929: 178; 1949: 208; 1953: 969; 1955: 193; 1964b: 33; 1967: 83.
   Type locality: Maputo, Mozambique.
   Parks/reserves: Kruger National Park (Letaba Camp, Shingwedzi, Skukuza).
   Distribution: Angola, Botswana, Mozambique, Namibia, Zimbabwe, South Africa.

6. *Zeria schoenlandi* (Pocock, 1900)
   Pocock, 1900: 316 (as *Solpuga*); Hewitt, 1919: 29; Lawrence, 1955: 194; Wharton, 1981: 78; Harvey, 2003: 323.
   Type locality: Grahamstown, Eastern Cape Province.
   Parks/reserves: Table Mountain National Park.
   Distribution: South Africa, Zimbabwe.

7. *Zeria sericea* (Pocock, 1897)
   Pocock, 1897: 260 (from *Solpuga*); Lawrence, 1955: 194; 1964b: 33; 1967: 83; Wharton, 1981: 78; Harvey, 2003: 323.
   Type locality: Gadzema, Zimbabwe.
   Parks/reserves: Kruger National Park (Punda Milia area, Shilowane, Madziringwe Poort, Saselandonga Poort, Sandveld, Sabie Hoek).
   Distribution: Zimbabwe, Democratic Republic of the Congo, South Africa.

8. *Zeria serraticornis* (Purcell, 1899)
   Purcell, 1899: 409 (from *Solpuga*); Lawrence, 1955: 194; 1967: 83; Harvey, 2003: 323.
   Type locality: Bulawayo, Zimbabwe.
   Parks/reserves: Kruger National Park (Msimbit Forest, eastern boundary of Pafuri).
   Distribution: Zimbabwe, Ethiopia, Mozambique, Democratic Republic of the Congo, South Africa.

9. *Zeria spiralicornis* (Purcell, 1903)
   Purcell, 1903b: 304 (from *Solpuga*); Lawrence, 1955: 194; 1964b: 33; 1967: 83; Harvey, 2003: 323.
   Type locality: Shilovane, near Kranskop, KwaZulu-Natal Province.
   Parks/reserves: Kruger National Park (Shingwedzi, Olfants Camp, Skukuza, Malelane Rest Camp, Shalungwa Springs, Satara Rest Camp).
   Distribution: Zimbabwe, South Africa.

10. *Zeria strepsiceros nocturna* (Lawrence, 1965)*
    Lawrence, 1965: 51 (from *Solpuga*): 1967: 83; Harvey, 2003: 324.
    Type locality: Orpen Camp, Kruger National Park.
    Parks/reserves: Kruger National Park (Orpen Camp, Mtswu Drift, Doispanne road, Sitlabe Dam, Sabi Poort, Krokodil Bridge).
    Distribution: South Africa.
Some species are exclusively predators of termites (Cloudsley-Thompson 1977; Dippenaar-Schoeman 1993; Punzo 1998).

The aim of this paper is to provide an updated check list of the known Solifugae species that have so far been recorded from protected areas (national parks, nature reserves and wilderness areas) in South Africa to show the percentage of species presently protected.

Method

Data on the occurrence and distribution of the species were obtained from published literature and material housed in several collections. Species known to be endemic to South Africa are indicated with an asterisk in Tables 1 and 2. Only literature references relative to the areas under discussion were listed; for detailed references on each species see Harvey (2003). The latest nomenclature based on Harvey (2003) was used to compile the updated check list.

Discussion

The Solifugae presently known from national parks and reserves of South Africa are represented by three families, 11 genera and 46 species (Table 1).

The 46 species represent 30.7% of the South African fauna that might be presently protected on conserved areas. However, more surveys are needed to increase the sampling effort and improve the knowledge of the distribution of particular species. Also, most of the specimens examined were collected between 30–100 years ago, and therefore, new surveys are needed as part of SANSA to provide more current information on species within protected areas. There is also an urgent need for taxonomic support.
to improve the reliability of the biological databases on Solifugae as the last taxonomic research on the South African fauna was undertaken by Lawrence in the late 1960s, and by Lamoral (1973).

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