



# Taxonomy of Linyphiidae (Arthropoda, Araneae) in Théniet El Had National Park with new records for Algeria

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## Abstract

## Background

*Cedrus atlantica*, a species of coniferous tree in the Pinaceae family, is endemic to Algeria and Morocco. It originated in the Atlas Mountains of North Africa, hence the name Atlas Cedar. Cedar forests are home to a diverse range of flora and fauna. Yet despite their importance as a rich reservoir of fauna, very few faunistic studies have been carried out in Algeria in this type of ecosystem, particularly for the Araneae. Théniet El Had National Park (34.25 km<sup>2</sup>) is a unique national park in the western part of Algeria with centuries-old cedars. The present work is the first of its kind, consisting of establishing a preliminary list of Linyphiidae in this typical ecosystem.

## New information

A preliminary checklist of Linyphiidae of the National Park is provided, following a sampling period between January and December 2019. A total of 24 species were collected belonging to 15 genera of which *Pelecopsis* is the richest genus with six species. *Pelecopsis oujda* Bosmans & Abrous, 1992 and *Walckenaeria heimbergi* Bosmans, 2007, only known from Morocco so far, were collected for the first time in Algeria. Their distribution area is, thus, more extensive than present.

## Introduction

Linyphiidae is the second richest family of spiders, with 4847 species belonging to 634 genera (World Spider Catalog 2024). Although new species are still being described all over the world, this family is still less known. This can be explained not only by the small size of most individuals (1 to 8.5 mm), hence the name dwarf spiders, but their complex genitalia, and species richness are the other reasons for their difficult identification.

In Algeria, 57 genera and 143 species are identified and described in the following papers Bosmans 1985a, Bosmans 1985b, Bosmans 1986, Bosmans and Abrous 1990, Bosmans 1991a, Bosmans 1991b, Bosmans and Abrous 1992, Bosmans and Bouragba 1992, Bosmans and Chergui 1993, Bosmans and DeSmet 1993, Bosmans 1996, Bosmans 2002, Bosmans 2006a, Bosmans 2006b, Bosmans 2007, Bosmans 2008, World Spider Catalog 2024. Despite this species richness both in Algeria and elsewhere, the biogeography and the ecological preferences of this family are still less known. The present study aims not only to identify the Linyphiidae in Theniet El Had National Park (THNP) (Fig. 1), but also to study the distribution of species in this typical ecosystem. In addition, we report here new records of *Pelecopsis oujda* Bosmans & Abrous, 1992 and *Walckenaeria heimbergi* Bosmans, 2007 from THNP and consequently in Algeria, so far known from Morocco.

## Materials and methods

### Study area

Théniet El Had National Park (THNP) is one of the 11 national parks of Algeria, located in the Wilaya of Tissemsilt. It has several forests and it is located at the foothills of the Ouarsenis Mountain chain in the Tell Atlas and covering an area of 3425 ha (north-west Algeria, 35°47'-35°54'N, 01°54'-02°02'E) (Fig. 1). The Park created by the Algerian government in 1983, has a northwest-southeast orientated valley with extremely steep slopes that can exceed 50% in the northern part (Sarmoum et al. 2018). The altitude is between 854 and 1787 m a.s.l. with a forest coverage of 86.7%. The cedar forest in this Park is unique in western Algeria. It is also one of the rare places in the Mediterranean region where the cork oak grows at more than 1600 m. The flora is very varied, with many endemic species to Algeria.

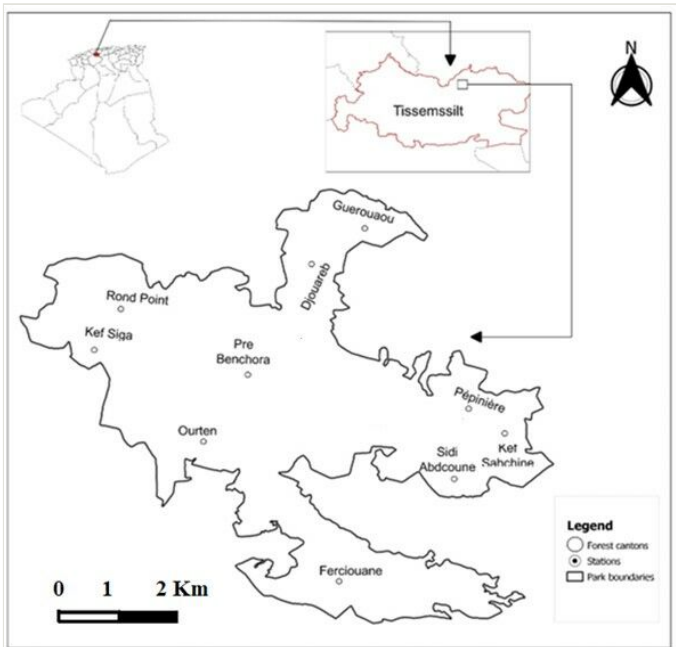


Figure 1. [doi](#)  
Location of Théniet El Had National Park.

## Sampling methods

Linyphiidae were collected using two sampling methods: pitfalls traps and hand collecting. The pitfalls were PET plastic bottles (diameter 8 cm, height 18 cm). The top of the bottle was cut off and used as a funnel for the trap. Ten traps were hollowed out in a straight line at 1 m intervals at each exposure level. The top of each trap was even with the ground surface. A solution of formaldehyde (4%) with a little detergent to decrease surface pressure was used as a fixative. The traps were emptied once a month for a full year. Hand-collecting method is a visual search where spiders are hand-collected by overturning objects on the ground such as stones, branches etc. or by picking up spiders from trees, bushes etc.

After sorting, spiders were preserved in 70% ethanol and identified in the laboratory using a stereomicroscope (Optika SZM-1), based on the following works: Millidge 1981, Bosmans 1985a, Bosmans 1985b, Bosmans and Abrous 1990, Bosmans 1991a, Bosmans 1991b, Bosmans and Abrous 1992, Bosmans and Chergui 1993, Bosmans and DeSmet 1993, Wunderlich 1994, Bosmans 2006a, Bosmans 2006b, Bosmans 2007, Bosmans 2008, Dawson et al. 2011 following the nomenclature of the World Spider Catalog (2024). The material collected was deposited in the laboratory of Dynamics and Biodiversity, University of Sciences and Technology Houari Boumediene, Algiers, Algeria.

## Taxon treatments

### *Agyneta pseudorestris* Wunderlich, 1980

#### Materials

- a. scientificName: *Agyneta pseudorestris* Wunderlich, 1980; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011703; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Agyneta*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 1; sex: female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 907DFAAB-94F8-5DB8-9E97-FC67DE044D38
- b. scientificName: *Agyneta pseudorestris* Wunderlich, 1980; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011703; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Agyneta*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 5; day: 1-15; individualCount: 1; sex: male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 8C235709-ACAE-57C8-862D-D4EE381DD4AB
- c. scientificName: *Agyneta pseudorestris* Wunderlich, 1980; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011703; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Agyneta*; higherGeography: North Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: hand collecting; year: 2019; month: 7; day: 1-15; individualCount: 1; sex: male; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 17F90CE1-4196-50F1-9196-0C13909C8DBA

#### Distribution

**Algerian distribution:** Almost the whole of the northern part of the country, from the east to the west (Bosmans 2006b).

**Global distribution:** Mediterranean (World Spider Catalog 2024).

### *Alioranus pauper* (Simon, 1882)

#### Material

- a. scientificName: *Alioranus pauper* (Simon, 1882); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009378; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Alioranus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m;

verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: hand collecting; year: 2019; month: 3; day: 1-15; individualCount: 1; sex: male; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 6072F4EE-EA65-5C1E-8AE6-A941F35694B2

### Distribution

**Algerian distribution:** From the coastal region to the interior of the country, especially the east and south-east, found also in the north-eastern Sahara (Bosmans 2007).

**Global distribution:** Mediterranean (World Spider Catalog 2024).

## *Centromerus cinctus* (Simon, 1884)

### Materials

- a. scientificName: *Centromerus cinctus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009723; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 4; day: 1-15; individualCount: 1; sex: male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 0A24B19E-75B6-51B7-B507-B72D4F4B7964
- b. scientificName: *Centromerus cinctus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009723; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 1; sex: female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: A1C32671-9346-50FA-8C5F-E84E4F56CF30

### Distribution

**Algerian distribution:** North, north-east and south-west of the country (Bosmans 1986 Bosmans 2006b).

**Global distribution:** France (Corsica), Algeria, Tunisia. (World Spider Catalog 2024).

## *Centromerus sinuatus* Bosmans, 1986

### Materials

- a. scientificName: *Centromerus sinuatus* Bosmans, 1986; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009773; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria;

- countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50" E; samplingProtocol: pitfall traps; year: 2019; month: 1; day: 1-15; individualCount: 2; sex: male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: C27C68C9-3C41-5182-A445-90C62F17BBD6
- b. scientificName: *Centromerus sinuatus* Bosmans, 1986; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009773; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: hand collecting; year: 2019; month: 4; day: 1-15; individualCount: 13; sex: 8 males, 6 females; lifeStage: adult; recordedBy: Badis Bakhouche; Imad Djemadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 181D0509-FF1B-591B-9C8E-B5561897D349
- c. scientificName: *Centromerus sinuatus* Bosmans, 1986; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009773; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 2; sex: male, 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 23C067FB-5A7B-526F-A5FB-F899D2A6AA02

## Distribution

**Algerian distribution:** North part of the country (Bosmans 1986, Bosmans 2006a).

**Global distribution:** Morocco, Algeria, Tunisia (World Spider Catalog 2024).

## *Centromerus succinus* (Simon, 1884)

### Materials

- a. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 1; day: 1-15; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: B7B77EEC-5533-5A58-BE59-65D1F6E92594
- b. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 4; sex: 1 male, 3 females; lifeStage:

- adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 82CA302E-8061-5D91-A781-35FA1DCA11A8
- c. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 1; sex: male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: B48347A1-E25A-5D95-9E0A-75C4D91F8AF1
- d. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 5; day: 1-15; individualCount: 4; sex: 1 male, 3 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 6E899FDE-BE0F-5435-B521-4F237A3B03B1
- e. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: pitfall traps; year: 2019; month: 6; day: 1-15; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 8B0F6B08-776C-54E8-B2DB-98E295D8C98E
- f. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: pitfall traps; year: 2019; month: 7; day: 1-15; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: DCF115B5-60BA-5D2E-9FB8-86CE381B4A36
- g. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: A512B257-0418-5113-AB92-6D8154860AD8
- h. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species;

- genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 11; sex: 11 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 6970110D-4A01-5908-83C5-8E3AC2624162
- i. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 11; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 2D432921-4E6A-5059-8778-D3E59EFE0E1C
- j. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: pitfall traps; year: 2019; month: 11; day: 1-15; individualCount: 3; sex: 3 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: BFE8050F-92CF-5AF6-AAB0-197C66CE5F85
- k. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 11; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 4BB55DAE-4943-53AF-83EE-20438EDBAE2B
- l. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 11; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 182F604D-89F3-5B61-86BE-7D7C858D269B
- m. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: hand collecting; year: 2019; month: 11; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult;



- recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 0EE5A1DF-09FA-5445-91BE-3173781650E2
- n. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 10; sex: 7 males, 3 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 1D2137F4-6C1C-50A6-AA0E-9382E9047BC6
- o. scientificName: *Centromerus succinus* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:009777; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Centromerus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 4; sex: 1 male, 4 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: BACA3584-F6A9-5D24-8A00-0CEEF97AFD7B

## Distribution

**Algerian distribution:** North part of the country (Bosmans 1986, Bosmans 2006b).

**Global distribution:** Portugal, Spain, France, Switzerland, Italy, Algeria (World Spider Catalog 2024).

## *Diplocephalus graecus* (O. Pickard-Cambridge, 1873)

### Materials

- a. scientificName: *Diplocephalus graecus* (O. Pickard-Cambridge, 1873); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010058; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Diplocephalus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: hand collecting; year: 2019; month: 11; day: 1-15; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 9D606C95-8A7F-55A0-B0AE-216569B54DD4
- b. scientificName: *Diplocephalus graecus* (O. Pickard-Cambridge, 1873); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010058; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Diplocephalus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 3; sex: 3 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 10EDFEAE-3FD2-5DF2-993C-0F87747DAB5C

- c. scientificName: *Diplocephalus graecus* (O. Pickard-Cambridge, 1873); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010058; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Diplocephalus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 9; sex: 7 males, 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 163EE06D-D883-5662-9E1C-F8154B84C780
- d. scientificName: *Diplocephalus graecus* (O. Pickard-Cambridge, 1873); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010058; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Diplocephalus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 02C4597B-824C-5195-BFA3-E3F810047B1E

## Distribution

**Algerian distribution:** The north part of the country (Simon 1884, Bosmans 1996, Bouseksou et al. 2015).

**Global distribution:** Madeira, Europe, North Africa, Turkey, Israel (World Spider Catalog 2024).

## *Gonatium occidentale* Simon, 1918

### Materials

- a. scientificName: *Gonatium occidentale* Simon, 1918; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010666; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Gonatium*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50" E; samplingProtocol: hand collecting; year: 2019; month: 1; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Badis Bakhouché; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: EB000231-3AA5-5181-9F77-035A24E7DD6D
- b. scientificName: *Gonatium occidentale* Simon, 1918; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010666; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Gonatium*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: hand collecting; year: 2019; month: 1; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Badis Bakhouché; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 34B77F43-D7D4-5BCE-A07A-A9ABD724178C

- c. scientificName: *Gonatium occidentale* Simon, 1918; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010666; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Gonatium*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: hand collecting; year: 2019; month: 3; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: FD31D90E-EE0C-5061-9A64-06724DC20723
- d. scientificName: *Gonatium occidentale* Simon, 1918; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010666; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Gonatium*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 709B9417-B1DB-5300-B626-45AC332E58C1

## Distribution

**Algerian distribution:** North part of the country (Bosmans 2007).

**Global distribution:** Spain, France, Morocco, Algeria, Israel (World Spider Catalog 2024).

## *Improphantes decolor* (Westring, 1861)

### Materials

- a. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 1; day: 1-15; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: EBBAC5FB-5049-5307-9DD7-8356669D968F
- b. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: hand collecting; year: 2019; month: 4; day: 1-15; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: C8BD1983-B76B-5122-A3C5-008D4EDA4193
- c. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum:

Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: hand collecting; year: 2019; month: 4; day: 1-15; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 8342A36F-7C79-5E16-83CE-E159FF4758B7

- d. scientificName: *Improphantes decolor* (Westring 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 4; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 984C114F-23FD-5690-AE6A-013741B65516
- e. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 5; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 9C1C7574-92A4-51A3-9270-6F05EAD2EA43
- f. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 5; day: 1-15; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 1D9FBB4C-1FC6-5474-B1BA-F1D48E815FAD
- g. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: E4421A00-36C8-5004-9E6C-780F4CC11420
- h. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 4; sex: 4 females; lifeStage: adult;

- recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 5F605DBD-196D-5FAA-8E9C-B9C048CAD1A5
- i. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 11; day: 1-15; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 130C4E3E-BB8B-53BD-9DA0-B19BCBDCD247
- j. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 11; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 8A316D79-DA8E-549A-BB31-36074A17472B
- k. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06" E; samplingProtocol: pitfall traps; year: 2019; month: 11; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: EC70908B-5DFC-58B7-B0CE-E10C9CA062C4
- l. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 6A36716B-6A82-5C98-8B9D-48CB6EC04656
- m. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 376C7A01-2129-58BD-8CBC-D670774B0F81
- n. scientificName: *Improphantes decolor* (Westring, 1861); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:010894; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species;

genus: *Improphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: hand collecting; year: 2019; month: 12; day: 16-31; individualCount: 2; sex: 1 male, 1 females; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 8A2E7989-C9C5-5794-A1B4-8E6B61B394A9

### Distribution

**Algerian distribution:** The north part of the country (Bosmans 2006a, Bouseksou et al. 2015, Touchi et al. 2018).

**Global distribution:** Europe, North Africa (World Spider Catalog 2024).

## *Lessertia barbara* (Simon, 1884)

### Material

- a. scientificName: *Lessertia barbara* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011342; kingdom: Animalia ; phylum: Arthropoda ; class: Arachnida ; order: Araneae ; family: Linyphiidae ; taxonRank: species; genus: *Lessertia* ; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 66FA3ECD-5E6B-557E-BEC3-00993DC76024

### Distribution

**Algerian distribution:** The north part of the country (Bosmans 2007).

**Global distribution:** Spain, Morocco, Algeria, Italy (Sicily) (World Spider Catalog 2024).

## *Mecopisthes monticola* Bosmans, 1994

### Material

- a. scientificName: *Mecopisthes monticola* Bosmans, 1994; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011546; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Mecopisthes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 85BDF751-59EA-5899-BB62-182B0A7C1BE2

## Distribution

**Algerian distribution:** North part, from Tiaret in the west to Setif in the east (Bosmans and Chergui 1993, Bouseksou et al. 2015, Mansouri et al. 2019).

**Global distribution:** Algeria (World Spider Catalog 2024).

## *Nematogmus sanguinolentus* (Walckenaer, 1841)

### Material

- a. scientificName: *Nematogmus sanguinolentus* (Walckenaer, 1841); scientificNameID: urn:lsid:nmbe.ch:spidersp:011936; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; genus: *Nematogmus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50" E; samplingProtocol: hand collecting; year: 2019; month: 12; day: 16-31; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: Badis Bakhouché; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 207B2552-B53A-5442-A81E-DDC2A152816F

### Distribution

**Algerian distribution:** after Simon (1884) without precise locality.

**Global distribution:** Europe, North Africa, Caucasus, Russia (Europe to Far East), China, Korea, Japan (World Spider Catalog 2024).

**Comment:** This is the second record of the species in Algeria since that of Simon (1884).

## *Palliduphantes labilis* (Simon, 1913)

### Materials

- a. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: pitfall traps; year: 2019; month: 1; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 5973B2AD-ADE8-57B0-86B8-53AF03509401
- b. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: hand collecting; year: 2019; month: 1; day: 1-15; individualCount: 2; sex: 1 male, 1 female; lifeStage:

- adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: D0DE41B4-3369-554D-A1D7-A7C2F34FB908
- c. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: E8E64F15-E3DC-5454-8B6F-79E65E807CEE
- d. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 91F858F3-5DCB-5E9C-B353-3E48F2CF2A2A
- e. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50" E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: D750ACE5-39B4-5C23-B56F-6DF7AB3EFE23
- f. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50"E; samplingProtocol: hand collecting; year: 2019; month: 3; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 2C6B7D3F-8CAF-511C-90FA-5946BF5A9499
- g. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11"E; samplingProtocol: pitfall traps; year: 2019; month: 4; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: FE1BCEAF-8FEC-5214-B67A-0FF65E9E5952
- h. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species;



genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50"E; samplingProtocol: pitfall traps; year: 2019; month: 4; day: 1-15; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 2664854D-AF10-5952-A05F-479B330C85AD

- i. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50"E; samplingProtocol: hand collecting; year: 2019; month: 4; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 583568A0-9957-57D5-9A04-869E685E1077
- j. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: D0C89473-7CD6-57CB-94B9-66BE6FF3258F
- k. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20"E; samplingProtocol: pitfall traps; year: 2019; month: 5; day: 1-15; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: DAA6EB10-E67B-5066-85DA-21F65EA532DB
- l. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50"E; samplingProtocol: pitfall traps; year: 2019; month: 6; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 46CCA381-0827-5C16-BD68-A80C65DBDE40
- m. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11"E; samplingProtocol: pitfall traps; year: 2019; month: 6; day: 1-15; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult

- adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 48800744-BAFC-5C95-8069-4C22C3216FC4
- n. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11"E; samplingProtocol: pitfall traps; year: 2019; month: 7; day: 1-15; individualCount: 4; sex: 2 males, 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: E322357E-8C40-5B24-ABF2-9403EF024E02
- o. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50" E; samplingProtocol: pitfall traps; year: 2019; month: 7; day: 1-15; individualCount: 4; sex: 2 males, 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: F4BF7893-89F2-5985-A29B-B9245282C914
- p. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: D1B08374-7917-5EDA-94F0-9E3A419C283E
- q. scientificName: *Palliduphantes labilis* (Simon, 1913); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:011205; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Palliduphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20"E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 3; sex: 1 males, 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 4DBAB0F6-9025-5FA8-854F-A2F577CE996F

## Distribution

**Algerian distribution:** The north part of the country (Simon 1913, Denis 1937, Bosmans 1985b, Deeleman-Reinhold 1985).

**Global distribution:** Algeria and Tunisia (World Spider Catalog 2024).

***Pelecopsis bucephala* (O. Pickard-Cambridge, 1875)****Materials**

- a. scientificName: *Pelecopsis bucephala* (O. Pickard-Cambridge, 1875); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012248; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 5; day: 1-15; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 9543028F-C60C-55FF-B175-DE8892AABC2D
- b. scientificName: *Pelecopsis bucephala* (O. Pickard-Cambridge, 1875); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012248; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06" E; samplingProtocol: pitfall traps; year: 2019; month: 6; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: E53C0ED7-A0FA-5F89-8C9B-4E00FD9D60F3
- c. scientificName: *Pelecopsis bucephala* (O. Pickard-Cambridge, 1875); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012248; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06" E; samplingProtocol: hand collecting; year: 2019; month: 12; day: 16-31; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: CE6E8291-5CDD-5998-8209-F67430AC4C20

**Distribution**

**Algerian distribution:** The north part from the east to the west (Denis 1968, Bosmans and Abrous 1992).

**Global distribution:** Western Mediterranean (World Spider Catalog 2024).

***Pelecopsis digitulus* Bosmans & Abrous, 1992****Materials**

- a. scientificName: *Pelecopsis digitulus* Bosmans & Abrous, 1992; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012254; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 2; sex: 2 males; lifeStage: adult;

recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 0A499E6B-3907-54F2-8006-1E98906FF1B3

- b. scientificName: *Pelecopsis digitulus* Bosmans & Abrous, 1992; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012254; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 4; day: 1-15; individualCount: 7; sex: 4 males, 3 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: DA55792A-6836-55AF-B02B-14379FD29839

## Distribution

**Algerian distribution:** Interior of the country (Bosmans and Abrous 1992).

**Global distribution:** Algeria and France (Corsica), Italy (World Spider Catalog 2024).

## *Pelecopsis inedita* (O. Pickard-Cambridge, 1875)

### Materials

- a. scientificName: *Pelecopsis inedita* (O. Pickard-Cambridge, 1875); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012264; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 1; day: 1-15; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 82E9AA40-0253-5EAD-908D-250121F6856C
- b. scientificName: *Pelecopsis inedita* (O. Pickard-Cambridge, 1875); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012264; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 4; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: A286C028-BF53-53D5-B36D-148F4046E945
- c. scientificName: *Pelecopsis inedita* (O. Pickard-Cambridge, 1875); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012264; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: hand collecting; year: 2019; month: 7; day: 1-15; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 20003C8D-74C9-5E3F-92E3-B305458F86D2

- d. scientificName: *Pelecopsis inedita* (O. Pickard-Cambridge, 1875); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012264; kingdom: Animalia ; phylum: Arthropoda ; class: Arachnida ; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: A0FE9014-4230-5D14-A45F-E5BCDAC33E0B
- e. scientificName: *Pelecopsis inedita* (O. Pickard-Cambridge, 1875); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012264; kingdom: Animalia ; phylum: Arthropoda ; class: Arachnida ; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 9A69DCF8-D783-5528-88A9-2826FC0B4E26
- f. scientificName: *Pelecopsis inedita* (O. Pickard-Cambridge, 1875); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012264; kingdom: Animalia ; phylum: Arthropoda ; class: Arachnida ; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 40BF0BA0-623D-57FD-A824-CFD6964428D7

## Distribution

**Algerian distribution:** North, east and west of the country (Denis 1962, Bosmans and Abrous 1992, Bouseksou et al. 2015).

**Global distribution:** Canary Islands, Mediterranean (World Spider Catalog 2024).

## *Pelecopsis major* (Denis, 1945)

### Materials

- a. scientificName: *Pelecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: hand collecting; year: 2019; month: 1; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 01AAD7AA-3ADA-5B46-9CE9-F071C9467FCF
- b. scientificName: *Pelecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum:

Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 1; day: 1-15; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 2F74A063-3C56-5ECD-85DB-7965F6007FCA

- c. scientificName: *Pelecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50" E; samplingProtocol: pitfall traps; year: 2019; month: 1; day: 1-15; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 2BDDC5AF-13FD-51B2-BB85-71E3A48E7B1F
- d. scientificName: *Pelecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 22552454-F0A8-552F-A8CD-2DF81E2DF824
- e. scientificName: *Pelecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 791AC47A-2E28-5962-B9F2-A397F76B0589
- f. scientificName: *Pelecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: hand collecting; year: 2019; month: 4; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: DEDDA596-B270-589F-98AA-FE1D73B5B052
- g. scientificName: *Pelecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult;

- recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 5DA69261-F940-5369-8672-A25090346185
- h. scientificName: *Pelecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: A3FECF1E-1C11-58E6-9E99-FF00A579E763
- i. scientificName: *Pelecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 7; sex: 5 males, 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 72BC7982-9841-509E-A066-29CE2A148D87
- j. scientificName: *Pelecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 11; day: 1-15; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 45B1FB71-F16C-5BE7-A52D-B1FBCC3D4BE2
- k. scientificName: *Pelecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 1-15; individualCount: 8; sex: 8 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 9AE68F45-F568-5740-96F3-554051E6889B
- l. scientificName: *elecopsis major* (Denis, 1945); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012275; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1449 m; verbatimCoordinateSystem: 35°51'34" N, 01°58'50" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 1-15; individualCount: 8; sex: 8 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: A9342886-0E42-5622-9CA2-308683EC169B

## Distribution

**Algerian distribution:** North part of the country (Denis 1945a, Bosmans and Abrous 1992).

**Global distribution:** Algeria (World Spider Catalog 2024).

## *Pelecopsis oranensis* (Simon, 1884)

### Materials

- a. scientificName: *Pelecopsis oranensis* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012288; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 3793DBE9-B349-5CE8-9817-9C324A8B0A5C
- b. scientificName: *Pelecopsis oranensis* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012288; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Pelecopsis*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 16-31; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: BC143B64-6348-5784-A81F-5CF866730EC7

## Distribution

**Algerian distribution:** The north part of the country (Simon 1884, Denis 1962, Bosmans and Abrous 1992).

**Global distribution:** Morocco and Algeria (World Spider Catalog 2024).

## *Pelecopsis oujda* Bosmans & Abrous, 1992

### Material

- a. scientificName: *Pelecopsis oujda* Bosmans & Abrous, 1992; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012289; kingdom: Animalia ; phylum: Arthropoda ; class: Arachnida ; order: Araneae ; family: Linyphiidae ; taxonRank: species; genus: *Pelecopsis* ; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 1; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; Robert Bosmans; occurrenceID: 8911B7C8-E806-558D-A0F6-AFF051FB93B6



## Distribution

**Algerian distribution:** To date, the species is only known from Théniet El Had National Park.

**Global distribution:** Morocco (World Spider Catalog 2024) and Algeria (First record).

## *Sintula penicilliger* (Simon, 1884)

### Materials

- a. scientificName: *Sintula penicilliger* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012650; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Sintula*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 1; day: 1-15; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: EEC5473A-189C-5E88-92B3-3D54FE1944C5
- b. scientificName: *Sintula penicilliger* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012650; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Sintula*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 7A45CD37-8A8F-5EF3-9E72-7595DAFAB0DE
- c. scientificName: *Sintula penicilliger* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012650; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Sintula*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: hand collecting; year: 2019; month: 4; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 7E903115-FB99-5C30-9CAC-EA32326A311A
- d. scientificName: *Sintula penicilliger* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012650; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Sintula*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06"E; samplingProtocol: hand collecting; year: 2019; month: 7; day: 1-15; individualCount: 4; sex: 4 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: C56FBAD9-327B-5CB3-AF00-1FF1F32C4A7A
- e. scientificName: *Sintula penicilliger* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012650; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species;

genus: *Sintula*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 1-15; individualCount: 4; sex: 2 males, 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 561DDB39-4F01-58F3-AF78-EFC32F0091C5

## Distribution

**Algerian distribution:** North of the country (Bosmans 1991a).

**Global Distribution:** Algeria (World Spider Catalog 2024).

## *Tenuiphantes tenuis* (Blackwall, 1852)

### Materials

- a. scientificName: *Tenuiphantes tenuis* (Blackwall, 1852); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012897; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Tenuiphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06" E; samplingProtocol: hand collecting; year: 2019; month: 3; day: 1-15; individualCount: 1; sex: female; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 96E58A33-49F1-5640-B20B-1894F5BBDB2
- b. scientificName: *Tenuiphantes tenuis* (Blackwall, 1852); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012897; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Tenuiphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 4; day: 1-15; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: E816F9B9-68FA-5024-8FAD-39F71659ECC7
- c. scientificName: *Tenuiphantes tenuis* (Blackwall, 1852); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012897; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Tenuiphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 5; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: E816F9B9-68FA-5024-8FAD-39F71659ECC7
- d. scientificName: *Tenuiphantes tenuis* (Blackwall, 1852); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012897; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Tenuiphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps;

- year: 2019; month: 6; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 6E73AD13-BA28-592F-B0B9-EDDD19087711
- e. scientificName: *Tenuiphantes tenuis* (Blackwall, 1852); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012897; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Tenuiphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 7; day: 1-15; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 8D65FDA0-7703-526C-896E-020B3D3A29CA
- f. scientificName: *Tenuiphantes tenuis* (Blackwall, 1852); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012897; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Tenuiphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1474 m; verbatimCoordinateSystem: 35°51'58" N, 01°58'06" E; samplingProtocol: pitfall traps; year: 2019; month: 7; day: 1-15; individualCount: 12; sex: 8 males, 4 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: BB684436-1AB7-5446-8C65-C6129C47A539
- g. scientificName: *Tenuiphantes tenuis* (Blackwall, 1852); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012897; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Tenuiphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 8; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 9C782075-6D6C-5FFC-87FC-7E7043B6DAED
- h. scientificName: *Tenuiphantes tenuis* (Blackwall, 1852); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:012897; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Tenuiphantes*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 12; day: 1-15; individualCount: 16; sex: 12 males, 4 females; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 921A2219-FD5A-5782-A1D2-58969D5303F8

## Distribution

**Algerian distribution:** The north part, from the east to the west (Denis 1945b, Bosmans 1985b, Bosmans 2006a, Bouseksou et al. 2015, Touchi et al. 2018, Mansouri et al. 2019).

**Global distribution:** Macaronesia, northern Africa, Europe, Turkey, Caucasus, Russia (Europe to south Siberia), Iran, Kazakhstan, Central Asia. Introduced to Canada, USA, Chile, Argentina, Falkland Is., New Zealand (World Spider Catalog 2024).

## *Typhochrestus digitatus* (O. Pickard-Cambridge, 1873)

### Materials

- a. scientificName: *Typhochrestus digitatus* (O. Pickard-Cambridge, 1873); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:013179; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Typhochrestus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 1A07654C-1D63-5CD6-BC34-D6307BB5AF26
- b. scientificName: *Typhochrestus digitatus* (O. Pickard-Cambridge, 1873); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:013179; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Typhochrestus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 8E845FA7-C394-5BF0-BD92-19B577E7D413

### Distribution

**Algerian distribution:** North and west of the country (Denis 1937, Bosmans and Abrous 1990).

**Global distribution:** Europe and North Africa (World Spider Catalog 2024).

## *Typhochrestus mauretanicus* Bosmans, 1990

### Material

- a. scientificName: *Typhochrestus mauretanicus* Bosmans, 1990; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:013188; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Typhochrestus*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Theniet El Had; verbatimElevation: 1456 m; verbatimCoordinateSystem: 35°51'18" N, 01°59'20" E; samplingProtocol: hand collecting; year: 2019; month: 4; day: 1-15; individualCount: 5; sex: 5 males; lifeStage: adult; recordedBy: Badis Bakhouche; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 0F5D75AE-4713-52BE-AE49-D040802CB2F0

### Distribution

**Algerian distribution:** North-west of the country (Bosmans and Abrous 1990, Bosmans 2008).

**Global distribution:** Morocco, Algeria (World Spider Catalog 2024).

***Walckenaeria erythrina* (Simon, 1884)****Materials**

- a. scientificName: *Walckenaeria erythrina* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:013287; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Walckenaeria*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 7; day: 1-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: AFC91CF-3DCE-5C5E-82B3-C1087449B408
- b. scientificName: *Walckenaeria erythrina* (Simon, 1884); taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:013287; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Walckenaeria*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1470 m; verbatimCoordinateSystem: 35°52'00" N, 01°58'07" E; samplingProtocol: pitfall traps; year: 2019; month: 10; day: 1-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; occurrenceID: 85521687-EE73-590C-A9ED-6383F766EA1E

**Distribution**

**Algerian distribution:** North part of the country (Simon 1884, Simon 1926, Bosmans and DeSmet 1993).

**Global distribution:** France (Corsica), Morocco, Algeria, Tunisia (World Spider Catalog 2024).

***Walckenaeria heimbergi* Bosmans, 2007****Material**

- a. scientificName: *Walckenaeria heimbergi* Bosmans, 2007; taxonomicStatus: accepted; scientificNameID: urn:lsid:nmbe.ch:spidersp:041834; kingdom: Animalia; phylum: Arthropoda; class: Arachnida; order: Araneae; family: Linyphiidae; taxonRank: species; genus: *Walckenaeria*; higherGeography: North Africa; continent: Africa; country: Algeria; countryCode: DZ; municipality: Théniet El Had; verbatimElevation: 1448 m; verbatimCoordinateSystem: 35°51'30" N, 01°59'11" E; samplingProtocol: pitfall traps; year: 2019; month: 2; day: 1-15; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: Amina Saadi; identifiedBy: Ourida Kherbouche-Abrous; Robert Bosmans; occurrenceID: 6F3A602C-BAC9-5C09-A327-FBE3E6E9550C

**Distribution**

**Algerian distribution:** to date, the species is only known from Théniet El Had National Park.

**Global distribution:** Morocco (World Spider Catalog 2024) and Algeria (First record).

## Discussion

During the sampling period in Théniet El Had National Park (THNP), a total of 167 males and 109 females belonging to 15 genera and 24 species were collected. The genus *Pelecopsis* was the most species-rich. These results are in agreement with the work of Kherbouche-Abrous (2006) in the Djurdjura National Park (Tizi Ouzou, north Algeria) and Mansouri-Tabet (2020) in Chrea National Park (Blida, north Algeria), where they also found that *Pelecopsis* is the richest genus.

Amongst the collected species, four (4) are endemic to Algeria and Morocco: *Pelecopsis oranensis*, *P. oujda*, *Typhochrestus mauretanicus* and *Walckenaeria heimbergi*. Two (2) species are endemic to Algeria: *P. major* and *Sintula penicilliger*. One (1) to Algeria, Morocco and Tunisia: *Centromerus sinuatus* and one (1) to Algeria and Tunisia: *Palliduphantes labilis*. The remaining species are either Mediterranean, circum-Mediterranean or cosmopolitan.

Comparing our results with previous works in northern Algerian national parks, which are also cedar forests, similarities can be highlighted; Kherbouche-Abrous (2006) collected eight genera and 16 species in the Djurdjura National Park of which nine species were common with our results: *Centromerus sinuatus*, *C. succinus*, *Diplocephalus graecus*, *Mecopisthes monticola*, *Palliduphantes labilis*, *P. major*, *Tenuiphantes tenuis*, *Typhochrestus digitatus* and *Walckenaeria erythrina*. Mansouri-Tabet (2020) sampled eight species belonging to nine genera in the Chrea National Park of which six species were common with those collected in the Théniet El Had National Park (present work): *Agyneta pseudorurestris*, *C. succinus*, *Palliduphantes labilis*, *Pelecopsis inedita*, *Tenuiphantes tenuis* and *T. mauretanicus*.

In addition to the species new to the study area, two species *Pelecopsis oujda* Bosmans & Abrous, 1992 and *Walckenaeria heimbergi* Bosmans 2007, so far known only from Morocco, are new records to Algeria. They were collected only in a pure cedar forest at 1450 m. The first species is only known from a single male collected from Oujda in north-eastern Morocco. This could be the unknown male of *Pelecopsis aureipes* Denis 1962 whose type locality is probably close to Oujda (Bosmans and Abrous 1992). The second species is, until now, only known from the type locality: Douyet, Saiss plain, Fes, Morocco (Bosmans 2007).

Most species were collected in pure or mixed woodlands, open or closed, with no particular preference for any tree species; however, other studies may confirm or refute this assumption. Only *Nematogmus sanguinolentus* has been collected in herbaceous vegetation and seems to prefer dry and sunny spots. The majority of the species are stenochronous; they are active during two seasons only, in winter combined with spring or summer.

As this is the first work on Linyphiidae spiders in Théniet El Had National Park, it is necessary to carry out further field investigations using, in addition to Barber pitfall traps and hand collecting, other sampling methods such as sieving, Japanese umbrella (Ledoux and Canard 1981) consisting of beating or shaking foliage over an upturned umbrella etc., to have a more complete list of the spider community present in this Park. This requires a considerable further sampling effort to obtain more detailed lists of the arthropod fauna in general and the Aranea fauna in particular.

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## References

- Bosmans R (1985a) Études sur les Linyphiidae nord-africains II. Le genre *Oedothorax* Bertkau en Afrique du nord, avec une révision des caractères diagnostiques des mâles des espèces ouest-paléarctiques. Biologisch Jaarboek Dodonaea 53: 58-75.
- Bosmans R (1985b) Les genres *Troglohyphantes* Joseph et *Lepthyphantes* Menge en Afrique du Nord (Araneae, Linyphiidae) Etudes sur les Linyphiidae nord-africaines, III. Revue Arachnologique 6 (4): 135-178.
- Bosmans R (1986) Études sur les Linyphiidae Nord-Africaines IV. Le genre *Centromerus* Dahl (Araneae: Linyphiidae). Biologisch Jaarboek Dodonaea 54: 85-103.
- Bosmans R, Abrous O (1990) The genus *Typhochrestus* Simon 1884 in North Africa (Araneae: Linyphiidae: Erigoninae). Studies on North African Linyphiidae V. Bulletin de l'Institut Royal des Sciences Naturelles de Belgique 60: 19-37.
- Bosmans R (1991a) Le genre *Sintula* Simon en Afrique du Nord (Araneae, Linyphiidae) Etudes sur les Linyphiidae nord-africaines, VI. Revue Arachnologique 9: 103-117.
- Bosmans R (1991b) Two new *Lepthyphantes* species from the Saharian Atlas (Aranea: Linyphiidae). Biologisch Jaarboek Dodonaea 58: 63-70.
- Bosmans R, Abrous O (1992) Studies on North African Linyphiidae VI. The genera *Pelecopsis* Simon *Trichopterna* Kulczynski and *Ouedia* gen. n. Araneae: Linyphiidae. Bulletin of the British Arachnological Society 9 (3): 65-85.
- Bosmans R, Bouragba N (1992) Trois nouvelles Linyphiidae de l'Atlas Algérien, avec la description du mâle de *Lepthyphantes djazairi* Bosmans, et la redescription de *Lepthyphantes homonymus* Denis (Araneae). Bulletin & Annales de la Société Entomologique de Belgique 128: 245-262.
- Bosmans R, Chergui F (1993) The genus *Mecopisthes* Simon in North Africa (Araneae: Linyphiidae: Erigoninae). Studies on North African Linyphiidae VII. Bulletin & Annales de la Société Entomologique de Belgique 129: 341-358.
- Bosmans R, DeSmet K (1993) Le genre *Walckenaeria* Blackwall en Afrique du Nord (Araneae, Linyphiidae). Etudes sur les Linyphiidae nord-africaines, I. Revue Arachnologique 10 (2): 21-51.

- Bosmans R (1996) The Genera *Araeoncus* Simon, *Delorripis* Simon and *Diplocephalus* Bertkau in Northern Africa (Araneae: Linyphiidae: Erigoninae) Studies on North African Linyphiidae VII. Belgian Journal of Zoology 126 (2): 123-151.
- Bosmans R (2002) Les genres *Acartauchenius* Simon et *Thaumatoncus* Simon en Afrique du Nord. Etudes sur les Linyphiidae africaines, IX (Araneae, Linyphiidae, Erigoninae). Revue Arachnologique 14: 1-24.
- Bosmans R (2006a) Contribution to the knowledge of the Linyphiidae of the Maghreb. Part X. New data on *Lepthyphantes* Menge (sensu lato) species (Araneae, Linyphiidae). Belgian Journal of Zoology 136: 173-191.
- Bosmans R (2006b) Contribution to the knowledge of the Linyphiidae of the Maghreb. Part XI. Miscellaneous linyphiid genera and additions (Araneae: Linyphiidae: Linyphiinae). Bulletin & Annales de la Société Entomologique de Belgique 141: 125-161.
- Bosmans R (2007) Contribution to the knowledge of the Linyphiidae of the Maghreb. Part XII. Miscellaneous Erigonine genera and additional records (Araneae: Linyphiidae: Erigoninae). Bulletin & Annales de la Société Entomologique de Belgique 143: 117-163.
- Bosmans R (2008) A new contribution to the knowledge of the genus *Typhochrestus* Simon in Europe and North Africa (Araneae: Linyphiidae). Revista Ibérica de Aracnología 16: 83-92.
- Bouseksou S, Kherbouche-Abrous O, Beladjal L (2015) Ecology of Araneae (Arthropoda, Arachnida) populations in two agroecosystems: wheat and oilseed rape in the Mitidja plain (Algeria). Vie et Milieu-Life and environment 65 (4): 257-264.
- Dawson I, Merrett P, Russell-Smith T (2011) *Diplocephalus graecus* (O. P.-Cambridge, 1872) from Three Localities in Britain (Araneae: Linyphiidae). Bulletin of the British Arachnological Society 15 (6): 211-212.
- Deeleman-Reinhold C (1985) Dutch biological and speleological exploration in Algeria. 3 Sur quelques Linyphiidae cavernicoles de la région méditerranéenne occidentale (Araneae). Revue Arachnologique 37-48.
- Denis J (1937) On a collection of spiders from Algeria. Proceedings of the Zoological Society of London 106 (4): 1027-1060. <https://doi.org/10.1111/j.1469-7998.1936.tb06301.x>
- Denis J (1945a) Notes sur les érigonides. X. Remarques sur le genre *Entelecara* E. Simon avec la description de formes nouvelles du genre *Plaesiocraerus* E. Simon. Bulletin de la Société d'Histoire Naturelle de Toulouse 80: 203-215.
- Denis J (1945b) Descriptions d'araignées nord-africaines. Bulletin de la Société d'Histoire Naturelle de Toulouse 79: 41-57.
- Denis J (1962) Notes sur les érigonides. XXIV. Les *Pelecopsis* nord-africaines. Bulletin de la Société des Sciences Naturelles du Maroc 42: 279-291.
- Denis J (1968) Notes sur les érigonides, XXXVII. Le genre *Exechophysis* Simon, avec des notes sur quelques espèces appartenant à d'autres genres. Bulletin de la Société entomologique de France 72 (9): 310-322. <https://doi.org/10.3406/bsef.1967.20974>
- Kherbouche-Abrous O (2006) Les Arthropodes non insectes épigés du parc national du Djurdjura: diversité et écologie. University of Sciences and Technology Houari Boumediene, Faculty of Biological Sciences, Bab ezzouar, Algiers, Algeria, 198 pp. [In Fr].
- Ledoux JC, Canard A (1981) Initiation à l'étude des araignées. Ledoux Domazan, 56 pp.
- Mansouri H, Ould Rouis S, Kherbouche-Abrous O, Ould Rouis A, Beladjal L (2019) Effects of anthropogenic factors on spider communities (Arthropoda: Araneae) in Chréa



National park (Blida, Algeria). African Journal of Ecology 58 (3): 409-421. <https://doi.org/10.1111/aje.12701>

- Mansouri-Tabet H (2020) Ecologie des communautés d'Aranéides (Arthropodes, Arachnides) du parc national de Chréa suivant une diversité des structures végétales et en relation avec les facteurs anthropiques. University of Sciences and Technology Houari Boumediene, Faculty of Biological Sciences, Bab ezzouar, Algiers, Algeria.
- Millidge AF (1981) A revision of the genus *Gonatium* Araneae: Linyphiidae. Bulletin of the British Arachnological Society 5 (6): 253-277.
- Sarmoum M, Navarro-Cerrillo R, Guibal F, Abdoun F (2018) Structure, tree growth and dynamics of *Cedrus atlantica* Manetti forests in Theniet El Had National Park (N-W Algeria). Open Journal of Ecology 8: 432-446. <https://doi.org/10.4236/oje.2018.88026>
- Simon E (1884) Les arachnides de France. Tome cinquième, deuxième et troisième partie. Roret, Paris, 180-885 pp.
- Simon E (1913) Biospeologica XXX. Araneae et Opiliones, (quatrième série). Archives de Zoologie Expérimentale et Générale 52: 359-386.
- Simon E (1926) Les arachnides de France. Synopsis générale et catalogue des espèces françaises de l'ordre des Araneae. Tome VI. 2e partie. Roret, Paris, 309-532 pp.
- Touchi W, Kherbouche-Abrous O, Saadi A, Beladjal L (2018) Spider communities (Arthropoda, Araneae) in different pine forests of Zéralda Game Reserve (Algiers, Algeria): taxonomy and biodiversity. Revue d'Écologie (Terre et Vie) 73 (3): 269-282. <https://doi.org/10.3406/revec.2018.1934>
- World Spider Catalog (2024) World Spider Catalog. Version 25.0. Natural History Museum Bern. <http://wsc.nmbe.ch>. Accessed on: 2024-3-15.
- Wunderlich J (1994) Zur Taxonomie europäischer Gattungen der Zwergspinnen (Arachnida: Araneae: Linyphiidae: Erigoninae). Beiträge zur Araneologie 4: 643-654.