

## **Lectotypification of Three Species of *Silene* sect. *Italicae* (Rohrb.) Schischk. (Caryophyllaceae)**

Authors: Du Pasquier, Pierre-Emmanuel, and Jeanmonod, Daniel

Source: *Candollea*, 71(1) : 19-22

Published By: The Conservatory and Botanical Garden of the City of Geneva (CJBG)

URL: <https://doi.org/10.15553/c2016v711a4>

---

BioOne Complete ([complete.BioOne.org](https://complete.BioOne.org)) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at [www.bioone.org/terms-of-use](https://www.bioone.org/terms-of-use).

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

---

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

# Lectotypification of three species of *Silene* sect. *Italicae* (Rohrb.) Schischk. (Caryophyllaceae)

Pierre-Emmanuel Du Pasquier & Daniel Jeanmonod

## Abstract

DU PASQUIER, P.-E. & D. JEANMONOD (2016). Lectotypification of three species of *Silene* sect. *Italicae* (Rohrb.) Schischk. (Caryophyllaceae). *Candollea* 71: 19-22. In English, English and French abstracts. DOI: <http://dx.doi.org/10.15553/c2016v711a4>

Lectotypes are designated in Boissier's Flora Orientalis herbarium for *Silene astartes* C.I. Blanche ex Boiss., *Silene galataea* Boiss. and *Silene splendens* Boiss., three species belonging to *Silene* sect. *Italicae* (Rohrb.) Schischk. (Caryophyllaceae). An authorship ambiguity about *Silene astartes* is also resolved.

## Résumé

DU PASQUIER, P.-E. & D. JEANMONOD (2016). Lectotypification de trois espèces de *Silene* sect. *Italicae* (Rohrb.) Schischk. (Caryophyllaceae). *Candollea* 71: 19-22. En anglais, résumés anglais et français. DOI: <http://dx.doi.org/10.15553/c2016v711a4>

Des lectotypes sont désignés dans l'herbier de la Flora Orientalis de Boissier pour *Silene astartes* C.I. Blanche ex Boiss., *Silene galataea* Boiss. et *Silene splendens* Boiss, trois espèces appartenant au genre *Silene* sect. *Italicae* (Rohrb.) Schischk. (Caryophyllaceae). Une ambiguïté à propos de l'auteur de *Silene astartes* est aussi levée.

## Keywords

CARYOPHYLLACEAE – *Silene* – Flora Orientalis – Boissier Herbarium – Lectotypification

---

Addresses of the authors:

Laboratoire de Systématique végétale et Biodiversité, Université de Genève et Conservatoire et Jardin botaniques de la Ville de Genève, C.P. 60, 1292 Chambésy, Switzerland. E-mail (PEDP): [pierre-emmanuel.du-pasquier@ville-ge.ch](mailto:pierre-emmanuel.du-pasquier@ville-ge.ch)

Submitted on October 16, 2015. Accepted on December 12, 2015.

First published online on March 14, 2016.



Fig. 1. – Lectotype of *Silene astartes* C.I. Blanche ex Boiss. The morphological description is written by C.I. Blanche at the bottom right of the herbarium sheet. [Blanche 55, G-BOIS]

## Introduction

In the course of a taxonomic and phylogeographic study of *Silene* sect. *Italicae* (Rohrb.) Schischk. (Caryophyllaceae) in the oriental part of the Mediterranean basin, we have encountered three species that needs lectotypifications. *Silene astartes* C.I. Blanche ex Boiss., *S. galataea* Boiss. and *S. splendens* Boiss. are endemic to Lebanon, Cyprus and southwest Turkey, respectively. A lectotype is designated for each of the species whereas the authorship of *S. astartes* is also discussed in details.

## Nomenclature

*Silene astartes* C.I. Blanche ex Boiss., Fl. Orient. Suppl.: 102. 1888.

**Lectotypus** (designated here): **LEBANON. Prov. Mount-Lebanon:** Djebail, ruines d'Afka, VI-VII.1880, fl. & fr., *Blanche 55* (G-BOIS [G00330604]!; isolecto-: BEI!, G [G00341654]!) (Fig. 1).

*Notes.* – BOISSIER (1888) published *S. astartes* in the “Supplementum of the Flora Orientalis”. He wrote “*S. astartes* (Blanche in litt.)” before the Latin description. The mention of Blanche as the author “in litt.” by Boissier has been interpreted in different ways in the literature. Floras of Lebanon have cited only C.I. Blanche as the author of the species (sometimes with the mention “in Boiss.”; POST, 1896, 1932; THIEBAUT, 1936; MOUTERDE, 1966; TOHMÉ & TOHMÉ, 2007), whereas BOULOUMOY (1930) interpreted the authorship as “Boiss. et B.” [Boiss. & C.I. Blanche].

In the Boissier’s Herbarium of the “Flora Orientalis” (G-BOIS), *Blanche 55* contains a handwritten note by Blanche himself with a Latin description of the species (Fig. 1). However this description differs considerably from the protologue where Boissier published a new and more complete description by validating the name (BOISSIER, 1888: 102). We therefore ascribe Boissier as the author of *S. astartes* in accordance with GREUTER et al. (1984) and not as C.I. Blanche as mentioned in the latest flora of Lebanon treatment (TOHMÉ & TOHMÉ, 2007).

BOISSIER (1888) clearly cited two gatherings in the protologue: “Hab. in Libano supra Djebail ad minas Afka (Bl.!)” and “ad Ain Sufar (Peyron!)”. Only *Blanche 55* [G00330604] is present in G-BOIS. We found three duplicates of the Peyron collection at G and one at P. Each of them bears the locality “Ain Sufar” and are dated June 11, 1882. Two of them have the collection number 1379 mentioned [G00341656, P04987226]) and two [G00341655, G00341657] without any number. All these collections have a glandular-pubescent calyx and match fully with *S. italica* (L.) Pers. and not with *S. astartes*, which has a calyx always glabrous. Therefore, we choose *Blanche 55* housed at G-BOIS as the lectotype, which is the only material present at G-BOIS and exclude the remaining syntypes from *S. astartes*.



Fig. 2. – Lectotype of *Silene galataea* Boiss. [Sinteris & Rigo 768, G-BOIS]

*Silene galataea* Boiss., Fl. Orient. Suppl.: 102. 1888.

**Lectotypus** (designated here): **CYPRUS. Prov. Troödos:** circa Galata, 15.VI.1880, fl. & fr., *Sinteris & Rigo 768* (G-BOIS [G00330606]!; isolecto-: G-BOIS [G00330606]!, K [K000728598, K000728599] images seen, LD [LD1403097, LD1403157] images seen, P [P05019189, P05396106]!) (Fig. 2).

*Notes.* – A single gathering was designated for *S. galataea* (*Sinteris & Rigo 768*) by BOISSIER (1888). Two sheets of this collection are housed in G-BOIS, on which two and one specimens are mounted respectively, all clearly labelled. These specimens apparently correspond to distinct individuals, although it is not clearly obvious on the first sheet. We know that Boissier’s material is not always homogenous and corresponds sometimes to different species (JEANMONOD, 1985), especially in *Silene* L. with numerous convergences and potentially cryptic species. For this reason we prefer to fix



Fig. 3. – Lectotype of *Silene splendens* Boiss. (designated by an arrow). [Balansa 1312, G-BOIS]

the morphology of this species by designating a single plant as lectotype. We therefore designate the single specimen in G-BOIS mounted on the second sheet as lectotype because it is the most complete specimen and the determination bears Boissier's handwriting (Fig. 2). The two other specimens in G-BOIS are therefore considered as isolectotypes as the remaining duplicates distributed in various herbaria.

*Silene splendens* Boiss., *Fl. Orient.* 1: 631. 1867.

**Lectotypus** (designated here): **TURKEY. Prov. Phrygia:** Ouchak, 15.VII.1857, fl., *Balansa 1312* (G-BOIS [G00330605 fl. material]! ; isolecto-: BM [BM000578616] image seen, G [G00226582]!, JE [JE00015717] image seen, K [K000442511] image seen, MPU [MPU021862] image seen, P [P05437211, P05437212, P05437213]!, US [US00289354] image seen,

W [W1889-0016866]!, Z [ZT00036389]!) (Fig. 3). **Syn-typus:** **TURKEY. Prov. Phrygia:** Ouchak, 17.VIII.1857, fr., *Balansa 1312* (G-BOIS [G00330605 fr. material]! ; isosyn-: G [G00226583]!, JE [JE00015716] image seen, P [P05437210]!).

*Notes* – A single collection was designated by BOISSIER (1867) in the protologue of *S. splendens* (*Balansa 1312*). This collection clearly corresponds to two gatherings, one (in flowers) collected on July 15 and a second (in fruits) on August 17 (Fig. 3). These two gatherings have been widely distributed with a single label indicating both flowering and fruiting dates. We consider that the most complete material is in flower and therefore designate the specimen mounted on the left of the first sheet at G-BOIS as the lectotype (Fig. 3). Careful studies of all material available allow separating the two gatherings in the relevant herbaria where the fruiting material is designated as remaining syntypes.

## Acknowledgements

We wish to express our thanks to the curators of BEI and JE, who sent us herbarium material; the curators of P and W, who welcomed us; Martin Callmender, Shanina Ghazanfar and Roy Gereau, for their valuable comments that improved an earlier version of this manuscript and finally Bernard Renaud for taking the pictures of the lectotypes published here.

## References

- BOISSIER, P.E. (1888). *Flora Orient. Suppl.* Genève.
- BOULOUMOY, L. (1930). *Fl. Liban.* Vigot Frères.
- GREUTER, W. (1995). *Silene* (Caryophyllaceae) in Greece: a subgeneric and sectional classification. *Taxon* 44: 543–581.
- GREUTER, W., H.M. BURDET & G. LONG (ed.) (1984). *Med-Checklist. A critical inventory of vascular plants of the circum-mediterranean countries.* Vol 1. Conservatoire et Jardin botaniques de la Ville de Genève.
- JEANMONOD, D. (1985). *Silene amana* Boiss.: une confusion. *Candollea* 40: 1–3.
- MOUTERDE, P.S.J. (1966). *Nouv. Fl. Liban.* 1. Edition de l'Imprimerie Catholique, Beyrouth.
- POST, G.E. (1896). *Fl. Syria.* Syrian Protestant College, Beirut.
- POST, G.E. (1932). *Fl. Syria* 1. 2<sup>nd</sup> ed. American Press, Beirut.
- THIÉBAUT, J. (1936). *Fl. Lib.-Syr.* 1. Le Caire.
- TOHMÉ, G. & H. TOHMÉ (2007). *Ill. Fl. Lebanon.* CNRS, Beirut.