

Phyton (Horn, Austria)	Vol. 51	Fasc. 1	69–76	1. 6. 2011
------------------------	----------------	---------	-------	------------

Typification of *Statice cancellata* BERNH. ex BERTOL. (*Plumbaginaceae*)

By

Sandro BOGDANOVIĆ^{*}), Salvatore BRULLO^{**}) and Božena MITIĆ^{*})

With 3 Figures

Received October 14, 2010

Key words: *Statice cancellata*, *Limonium cancellatum*, *Plumbaginaceae*. – Epitype, lectotype, nomenclature, systematics, typification. – Flora of Croatia.

Summary

BOGDANOVIĆ S., BRULLO S. & MITIĆ B. 2011. Typification of *Statice cancellata* BERNH. ex BERTOL. (*Plumbaginaceae*). – *Phyton* (Horn, Austria) 51 (1): 69–76, with 3 figures.

A lectotype is designated for the hitherto untypified name *Statice cancellata* described by BERTOLONI from the North Adriatic coast, and is supplemented by an epitype with the aim to support the current usage of the name. A detailed description and additional illustrations for the species *Limonium cancellatum* (BERNH. ex BERTOL.) KUNTZE are presented.

Zusammenfassung

BOGDANOVIĆ S., BRULLO S. & MITIĆ B. 2011. Typification of *Statice cancellata* BERNH. ex BERTOL. (*Plumbaginaceae*). [Typisierung von *Statice cancellata* BERNH. ex BERTOL. (*Plumbaginaceae*)]. – *Phyton* (Horn, Austria) 51(1): 69–76, mit 3 Abbildungen.

Für den bisher nicht typisierten Namen *Statice cancellata*, der von BERTOLONI für Pflanzen von der nordadriatischen Küste aufgestellt worden war, wird ein Lectotyp bestimmt und durch einen Epityp ergänzt, der den bisherigen Namensgebrauch sichert. Eine ausführliche Beschreibung und ergänzende Abbildungen der heute als *Limonium cancellatum* (BERNH. ex BERTOL.) KUNTZE geführten Art werden gegeben.

^{*}) Dr. S. BOGDANOVIĆ (corresponding author), Prof. Dr. B. MITIĆ, Department of Botany and Botanical Garden, Faculty of Science, University of Zagreb, Marulicev trg 9a, 10000 Zagreb, Croatia; e-mail: sandro@botanic.hr

^{**}) Prof. Dr. S. BRULLO, Dipartimento di Botanica, Università degli Studi di Catania, via A. Longo 19, 95125 Catania, Italy; e-mail: salvo.brullo@gmail.com

1. Introduction

Statice cancellata was described by BERTOLONI 1837 using the unpublished name on the label of a specimen originating from Fiume (Rijeka, Croatia) that had been sent to him by J. G. BERNHARDI in 1814. Previously, the populations occurring in this area of the North Adriatic coast were ascribed to other species. In particular, REICHENBACH 1824, 1831 referred them to *Statice furfuracea* LAG., considering *St. cancellata* BERNH.! ined. as a synonym, while VISIANI 1826 attributed them to *Statice rorida* SM., and KOCH 1837 to *Statice pubescens* DC. An illustration of *Statice cancellata* was published by REICHENBACH 1855: tab. MCXLVI, II, 2, SCHLECHTENDAL & al. 1884: 278, tab. 1996, and by FIORI 1933: fig. 2698⁵. KUNTZE 1891 referred to the species under the generic name *Limonium*, proposing the new combination *L. cancellatum*, as did MAIRE & PETITMENGIN 1908, who had overlooked the earlier combination and repropounded it.

Presently the species *L. cancellatum* is understood to cover populations in rocky littoral plant communities of the east Adriatic coast and islands of Croatia, from the peninsula of Istria to the central Dalmatian islands (PANDŽA & al. 2007).

The basionym, *Statice cancellata*, remained untypified so far. In the protologue BERTOLONI 1837 quoted the following syntypes: “Habui Flumine a Prof. BERNHARDIO, ex Istria in rupibus maritimis a BIASOLETTO, et a Prof. VISIANO, et ex insula de’Brioni a TOMMASINIO, ex insulis Diomedeis in Adriatico (isole de’Tremi) a GASPARRINIO. BIASOLETTUS misit quoque ex Dalmatia ad Spalathum.” In addition, BERTOLONI gave a list of synonyms: “*S. cancellata* Bernh. Pl. sicc.* in meo herb. / *S. dichotoma* Gaspar. Descr. delle isol. di Trem. p. 19.* / *S. pubescens* Röhl. cum Mert. et Koch. Deutschl. Fl. 2. p. 490. excl. synonym. Koch. Syn. Fl. Germ. et Helv. 2. p. 595. excl. syn. de Cand. / *S. furfuracea* Reichenb. Cent. 2. p. 80. n. 188. tab. 188. fig. 327., et Fl. Germ. exc. 2. p. 190. n. 1127. / *Limonium maritimum* minus, perenne, patulum, Bellidis minoris folio, ramulis pinnatis, hirsutis, densissime ramificatis, et magis intortis, floribus caeruleis D. Micheli Till. Cat. hort. Pis. p. 100.* Mich. El. rar. pl. Musaei sui MS.,* et Cat. hort. case. Flor. p. 58. n. 4.* herb. Mich. / *L. parvum*, Bellidis folio, caulibus subhirsutis, ramosioribus, flore caeruleo, petalis cordatis Zannich. Op. posth. p. 27.”

Considering the original material conserved in BERTOLONI’s herbarium (BOLO), only some of the specimens are in agreement with the protologue description. These are those collected by BERNHARDI at Fiume, by BIASOLETTO and VISIANI in Istria and by TOMMASINI on the island of Brioni, while specimens collected by GASPARRINI on the Tremiti islands (“*ex Insulis Diomedeis*”) and by BIASOLETTO at Split (“*ad Spalathum*”) are taxonomically clearly different from the previous ones and represent other taxa. Among the material eligible for typification, the BERNHARDI specimen (BOLO) is selected as lectotype, since BERTOLONI applied to this species the yet un-

published name proposed by his collector, as explained in the note: “Mihi vero innotuit anno 1814. per exemplar benevole missum a Cl. Prof. Bernhardio sub nomine *Statice cancellatae*, quod nomen, cum sit antiquius, omni sanctitate servandum”.

Unfortunately, this herbarium sheet is incomplete because it consists of only some fragments of an inflorescence (Fig. 1). Therefore, it is advisable to designate here an epitype, according to Art. 9.7 of the ICBN (McNEILL & al. 2006) in order to remove any ambiguity on this name. The epitype (Fig. 2) has been chosen among the materials (complete and in good conditions) originating from the locality of provenance of the lectotype.

2. Typification

Statice cancellata BERNH. ex BERTOL., Fl. Ital. 3: 525. 1837 ≡ *Limonium cancellatum* (BERNH. ex BERTOL.) KUNTZE, Rev. Gen. Pl. 2: 395. 1891 ≡ *Statice minuta* var. *cancellata* (BERNH. ex BERTOL.) FIORI in FIORI & PAOL., Fl. Italia 2: 332. 1902.

Lectotype (designated here): *Statice cancellata* BERN. / BERT. Fl. Ital. 3. p. 525. n. 16. / Fiume / forte *St. cordata* varietas / Misit JG. BERNHARDI 1814 (BOLO-BERTOL!)

Epitype (designated here): *Statice cancellata* BERNH. / In rupibus ad mare adriaticum Kantrida. Prope Fiume. / 14. Sept. 1871./ Leg. A. M. SMITH (WU!)

Syntypes considered by us to apply to *Limonium cancellatum*: *Statice cancellata* BERNH. / *Statice rorida* / Spalato et alibi / Misit BIASOLETTO 1829 (BOLO-BERTOL!) – *Statice cancellata* BERNH., Bert. Fl. It. 3. p. 525, n. 16. / *Statice furfuracea* / ex Insula Brioni, Istria / initio julio 1837 / REICHB. p. 190. fl. exc. / TOMMASINI / Misit TOMMASINI 1837 (BOLO-BERTOL!) – *Statice cancellata* BERNH., Bert. Fl. Ital. 3. p. 525, n. 16. / *Statice reticulata* / in rupibus maritimis / Istria / Misit BIASOLETTO 1828 (BOLO-BERTOL!) – *Statice cancellata* BERNH., Bert. Fl. It. 3. p. 525, n. 16. / *Statice reticulata* / in rupibus maritimis / Istria et Dalmatia / Misit VISIANI 1825 (BOLO-BERTOL!) – *Statice cancellata* BERNH., BERT. Fl. Ital. 3. p. 524, n. 16. / *Statice dichotoma* / Ex insulis Diomedeis / Misit GASPARRINI 1838 (BOLO-BERTOL!).

Further specimens: *Statice rorida* sensu VIS., Stirp. Dalm.: 48. 1826, non SM. in SIBTH. & SM., Fl. Graec. 3: 91. 1821 – *Statice furfuracea* sensu RCHB., Fl. Germ. Excurs.: 190. 1831, non LAG., Gen. Sp. Pl.: 13. 1816 – *Statice pubescens* sensu W. D. J. KOCH, Syn. Fl. Germ. Helv. 1(2): 595. 1837, non DC. in CANDOLLE & LAMARCK, Fl. Franç., ed. 3, 6: 380. 1815.

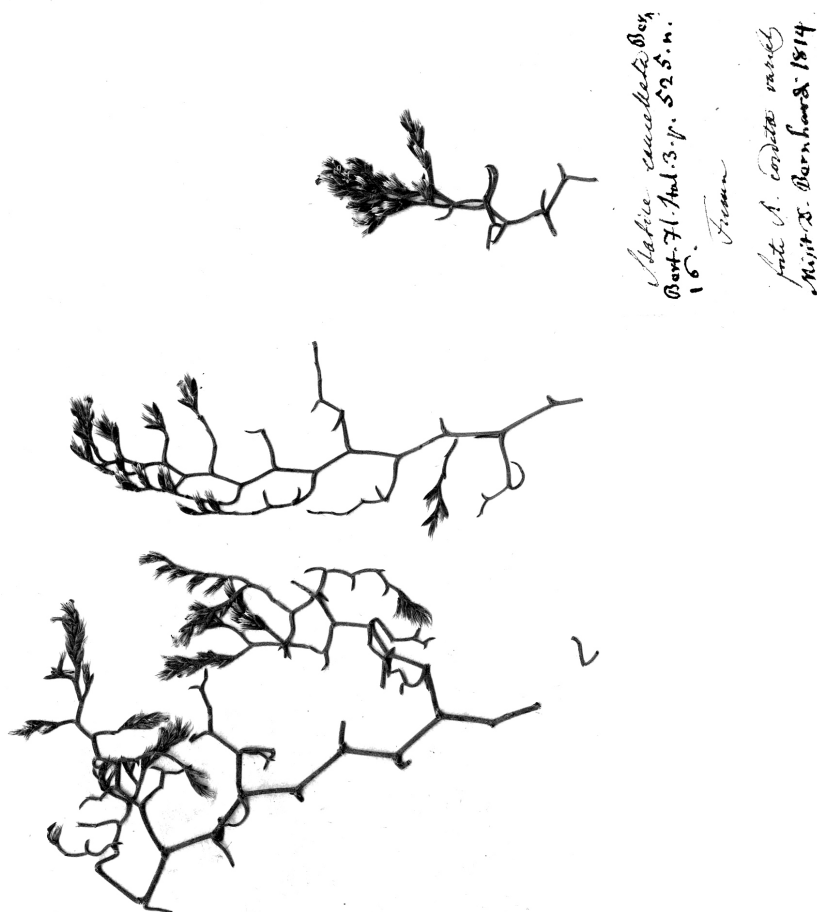
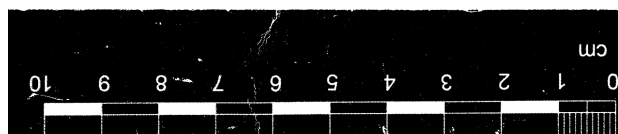


Fig. 1. Lectotype of *Statice cancellata* BERNH. ex BERTOL. (BOLO).

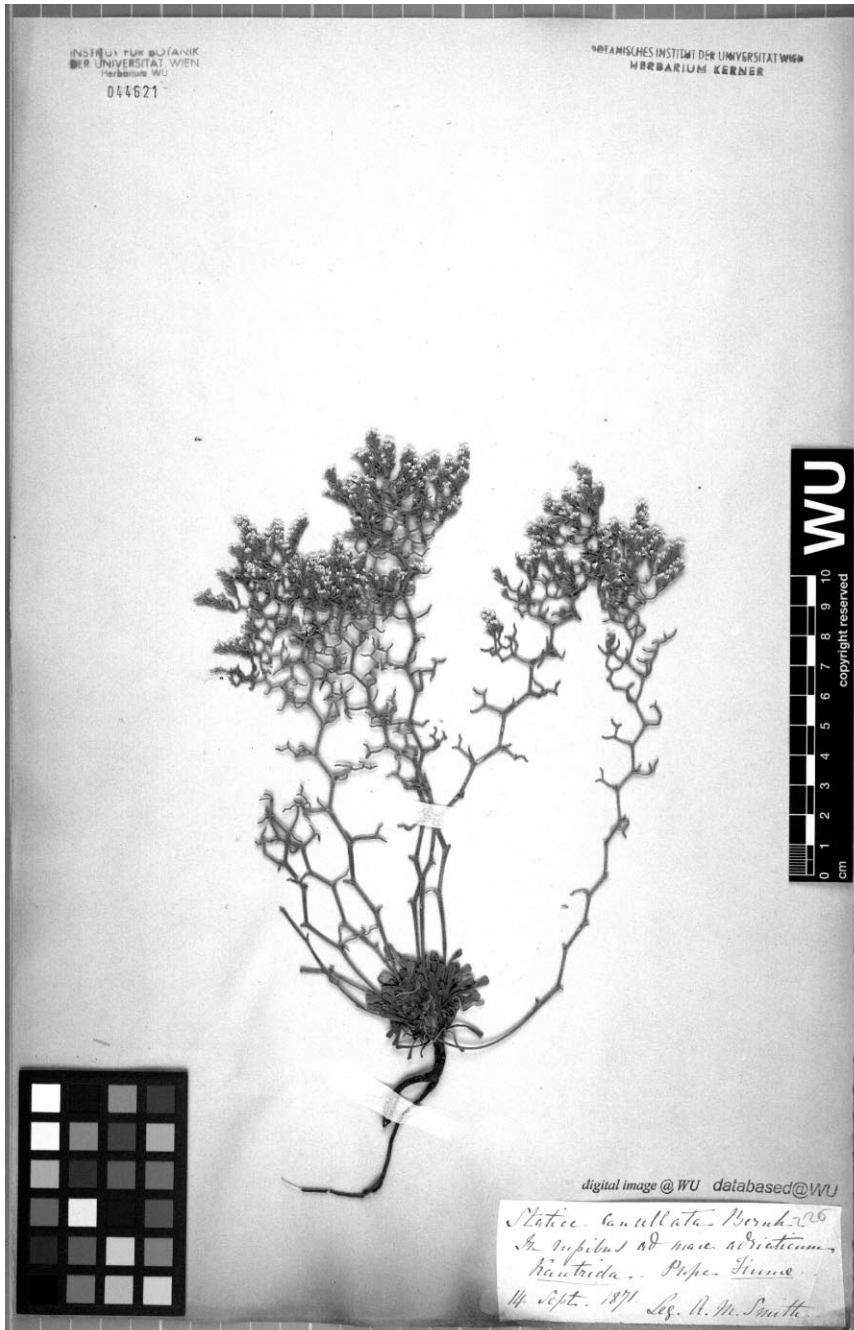


Fig. 2. Epitype specimen of *Statice cancellata* BERNH. ex BERTOL. (WU).

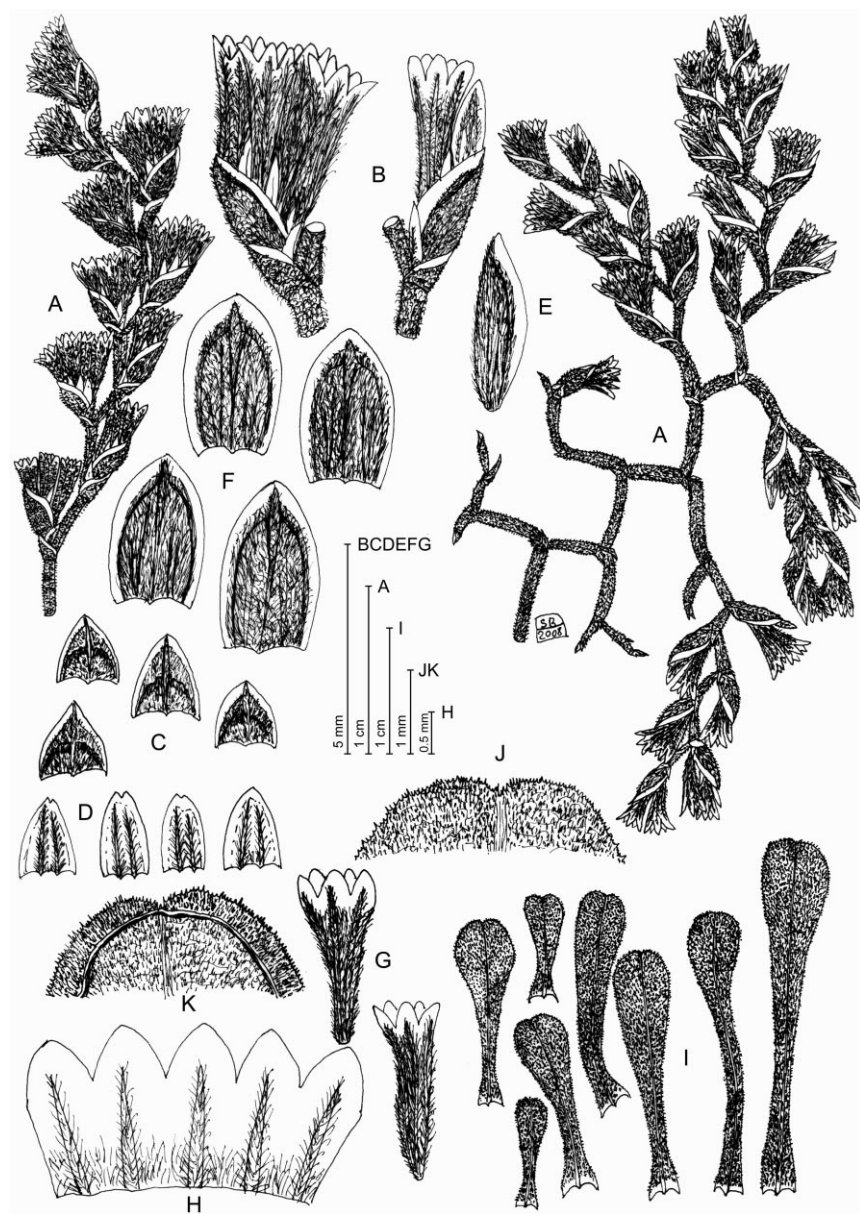


Fig. 3. *Limonium cancellatum* (BERNH. ex BERTOL.) KUNTZE. – A part of an inflorescence. – B spikelet. – C outer bracts. – D middle bracts. – E inner bract, lateral view. – F inner bracts. – G calyx. – H calyx lobes. – I leaves. – J leaf apex, upper margin. – K leaf apex, lower margin. – Drawn by Salvatore BRULLO.

3. Description of *Limonium cancellatum* (BERNH. ex BERTOL.) KUNTZE (Fig. 3)

Plant perennial, 8–40 cm tall, densely pubescent (hairs up to 0.2 mm long), with a robust tap-root. Caudices branched, 1–5 cm long, with dense leaf rosettes at the apex. Leaves rigid, rugose, densely hairy, green, 1–3 cm long, 3.5–5.0 mm wide, spathulate, slightly retuse at the apex, revolute at the margins, 1-nerved, gradually tapering into a long petiole. Stems numerous, prostrate to ascending, rugose, with numerous sterile branches, flexuous, fragile at the nodes, very branched, diverging at angles of 70–130(180)°, internodes 2.0–15 mm long, straight to curved. Inflorescence reticulate, branched from the base. Spikes 5.0–35 mm long, erect to curved. Spikelets 5.0–6.5 mm long, 3–6 per cm, 2–4 flowered. Outer bract 1.5–2.0 mm long, 1.3–1.7 mm wide, ovate, obtuse, margins glabrous, narrowly membranaceous, the central part fleshy, densely hairy, acuminate. Middle bract 1.7–2.0 mm long, 1.0–1.2 mm wide, oblong, bifid at the apex, membranaceous, hairy at base and veins. Inner bract 3.5–3.8 mm long, 2.1–2.3 mm wide, oblong, rounded to obtuse, margins membranaceous, glabrous, 0.2–0.3 mm wide, the central part fleshy, densely hairy, 1.7–2.0 mm wide, acuminate, forming a triangular tip 0.3–0.5 mm long, not reaching the upper margin. Calyx 4.5–5.0 mm long, exserted by 2.0–3.0 mm beyond the inner bract, tube densely hairy outside, with 5 hairy ribs, reaching up to the middle part of the lobes; calyx lobes 0.7–0.8 * 0.7–0.9 mm, hemi-elliptical, rounded. Corolla lilac. Chromosome number 2n=18.

4. Acknowledgments

The authors are grateful to Annalisa MANAGLIA, curator of the Bologna herbarium (BOLO) and to Heimo RAINER, assistant curator of the Vienna university herbarium (WU) for kind help and assistance in our examination of original herbarium material and photographic documentation. Thanks go to John McNEILL from The Royal Botanic Garden Edinburgh for useful comments on the manuscript.

5. References

- BERTOLONI A. 1837. Flora Italica sistens plantas in Italia et in insulis circumstantibus sponte nascentes, 3. – Bologna.
- FIORI A. 1933. Flora Italiana illustrata. – Firenze.
- KOCH W. D. J. 1837. Synopsis Florae Germanicae et Helveticae, 1(2). – Sumptibus Friederici Wilmans, Francofurti ad Moenum.
- KUNTZE O. 1891. Revisio generum plantarum vascularium omnium, 2. – Leipzig, London, Milan, New York, Paris.
- MAIRE R. & PETITMENGIN M. 1908. Étude des plantes vasculaires récoltées en Grèce (1906), vol. 4. – Nancy.
- McNEILL J., BARRIE F. R., BURDET H. M., DEMOULIN V., HAWKSWORTH D. L., MARHOLD K., NICOLSON D. H., PRADO J., SILVA P. C., SKOG J. E., WIERSEMA J. H. & TURLAND N. J. (eds.) 2006. International code of botanical nomenclature (Vienna

- Code): Adopted by the Seventeenth International Botanical Congress Vienna, Austria, July 2005. – *Regnum vegetabile* 146. – Ruggell: Gantner.
- PANDŽA M., FRANJIĆ J., ŠKVORC Ž. & IDŽOJTIĆ M. 2007. Syntaxonomical and synchronological analysis of the Crithmo-Limonietea Br.-Br. 1947 on the Eastern Adriatic coast. – *Period. Biol.* 109(1): 61–66.
- REICHENBACH H. G. filio 1855. *Icones florum Germanicae et Helveticae*, 17. – Lipsiae.
- REICHENBACH H. G. L. 1824. *Iconographia botanica seu plantae criticae*, 2. – Lipsiae.
- REICHENBACH L. 1831. *Flora Germanica excursoria*, 1, *Phylloblastae*, p. 141–434. – Lipsiae.
- SCHLECHTENDAL D. F. L. V., LANGETHAL L. E. & SCHENK E. 1884. *Flora von Deutschland*, 5. Aufl. (ed. HALLIER E.) 19. – Gera-Untermhaus.
- VISIANI DE R. 1826. *Stirpium dalmaticarum specimens*. – Patavii.

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Phyton, Annales Rei Botanicae, Horn](#)

Jahr/Year: 2011

Band/Volume: [51_1](#)

Autor(en)/Author(s): Bogdanovic Sandro, Brullo Salvatore, Mitic Bozena

Artikel/Article: [Typification of *Statice cancellata* BERNH. ex BERTOL. \(Plumbaginaceae\). 69-76](#)