

The correct name for *Staurastrum inconspicuum* Nordstedt (*Staurastrum minutissimum* Averswald *pro parte*) (*Desmidiaceae*, *Zygnematophyceae*)

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Staurastrum inconspicuum Nordstedt (1873: 26, fig. 11) was based upon *Staurastrum minutissimum* Averswald “in Rab[enhorst] Alg[en] Eur[opa]’s N:r 1428, *saltem ex parte*” non *Staurastrum minutissimum* Averswald (in Reinsch 1866: 140). Nordstedt separated his species from *Staurastrum minutissimum* Averswald based upon an illustration on herbarium label representing the Rabenhorst’s exsiccata # 1428 (Fig. 1) and provided a detail description and drawing (Fig. 2) showed considerable difference in morphology and dimensions from Reinsch’s (1866: 140, pl. XXIII [23] A. II) description and illustrations. Later, West & West (1912: 130, 131, pl. CXIX [119]: fig. 2) listed *Staurastrum minutissimum* under the authorship of Reinsch and provided a description, measurements and illustrations after Reinsch (1866).

However, *Staurastrum inconspicuum* Nordstedt is a later homonym of *Staurastrum inconspicuum* De Notaris (De Notaris & Baglietto 1871: 321, fig. 3), and it is thus illegitimate (ICN Principle III, Art. 53.1, Turland & al. 2018).

Here, a correct name is proposed for *Staurastrum inconspicuum* Nordstedt, as well as nomenclatural revision of its infraspecific taxon names in accordance with ICN Art. 41.

Staurastrum refractum Delponte 1877: 42, pl. XI [11]: figs 7-9 (source of synonymy West & al. 1923: 86)

Heterotypic synonyms: *Staurastrum inconspicuum* Nordstedt 1873: 26, pl. 1: fig. 11, 1873, *nom. illeg.*, priority for *Staurastrum inconspicuum* De Notaris (in De Notaris & Baglietto) 1871: 321, no fig.

Staurastrum minutissimum Averswald (in Reinsch) 1866: 140, pl. XXIII [23] A. II (based upon Rabenhorst 1863: Decades 43-44, no. 1428, “*saltem ex parte*”);

Didymidium (*Staurastrum*) *minutissimum* Averswald (in Reinsch) 1867: 153, pl. XXIII [23]: fig. 1 a-d;

(?) *Staurastrum haynaldii* Schaarschmidt 1883: 272, fig. 18

Staurastrum inconspicuum var. *crassum* F.Gay 1884: 68, pl. II [2]: fig. 10, as ‘*Staurastrum inconspicuum* Nordstedt β *crassum*’ (source of synonymy Coesel & Meesters 2013: 107).

Staurastrum inconspicuum var. *abbreviatum* Raciborski 1885: (87), pl. III [3] (= XII [12]): fig. 9, 1885, as ‘*Staurastrum inconspicuum* Nordstedt var. *abbreviatum*’ (source of synonymy Coesel & Meesters 2013: 107).

Staurastrum inconspicuum var. *vogesiicum* Lemaire 1890: 32 (as ‘*Staurastrum inconspicuum* [sic] Nordstedt var. *vogesiicum*’, misprint or literal error in species epithet) (= *Staurastrum subrefractum* Lemaire 1883: 21, pl. 1: fig. 3; source of synonymy Kouwets 1999: 115).

Staurastrum inconspicuum var. *planctonicum* G.M.Smith 1924: 109, pl. 80: figs 5–7, 1924, as ‘*Staurastrum inconspicuum* Nordstedt var. *planctonicum*’ (source of synonymy Coesel & Meesters 2013: 107).

Staurodesmus minutissimus (Averswald) Teiling 1967: 490, as ‘*Staurodesmus minutissimus* (Reinsch) Teiling’ (source of synonymy John & al. 2022: 56).

* At least in part.

Description. Cell slightly longer than wide, interrupted circularly by a wide and shallow sinus, isthmus equal in length to the body of the cell. Semicells quadriradiate with four cylindrical lobes or arms, enlarged at the base and equipped by two or three spines. The cells seen from one side offer something analogous to the torso of a man thanks to the lobes that represent its four extremities. Smooth wall. Length 21.0 µm, width 18.0 µm (Delponte 1877: 42, 43).

Lectotype (designated here): [icon!] Delponte 1977: pl. XI [11]: figs 7-9 (Fig. 3).

Lectotype locality: Italy: Lake Candia in the Canavese area [now the town of Candia Canavese in the Piedmontese province of Turin].

Registration (of designation of lectotype): <http://phycobank.org/105150>

Note. Nordstedt (1873) found this species in southern Norway: I. Odde. – II. Kristiansand; Mosby; Liukjærn; Reiersdal; Aspelandsvandet. – IV. Guldsmidsmoen; Hordnäs. – VII. Stuefloten.

Rabenhorst's exsiccata # 1428 deposited in the herbariums of the University of Michigan (MICH) [Catalog #: 736509] and Miami University - Algae (MU) [Catalog #: 000186161] digitalised and reflected on Macroalgal Herbarium Consortium portal (<https://macroalgae.org/portal/collections/exsiccati/index.php?omenid=7634#>).

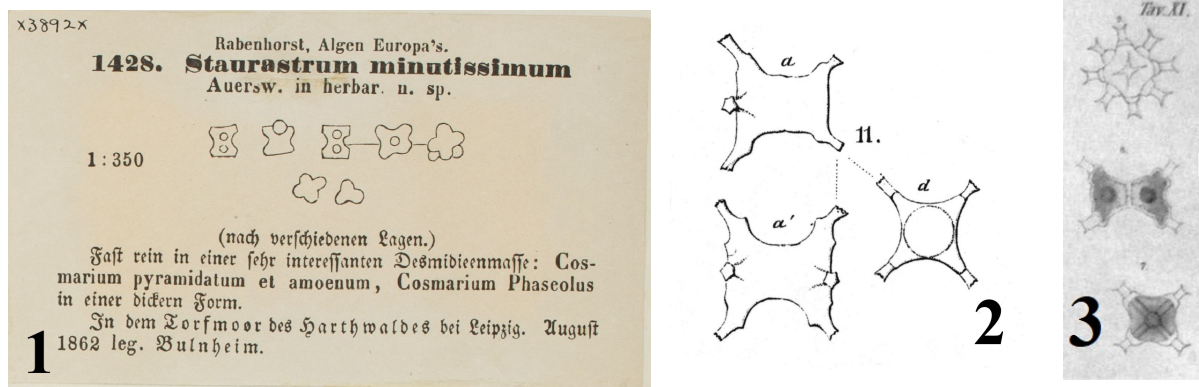


Fig. 1. Herbarium label representing the Rabenhorst's exsiccata # 1428. **Fig. 2.** Original drawing of *Staurastrum inconspicuum* Nordstedt (from Nordstedt 1873). **Fig. 3.** Original drawing of *Staurastrum refractum* Delponte (from Delponte 1877)

Staurastrum refractum f. *gracilius* (Maskell) Levanets & Janse van Vuuren, *comb. nov.*

Basionym: *Staurastrum inconspicuum* f. *gracilius* Maskell *Transactions and Proceedings of the New Zealand Institute* 21: 26, pl. V [5]: fig 46, 1889 (as '*Staurastrum inconspicuum* Nordstedt f. *gracilior*')

Lectotype (designated here): [icon!] Maskell 1889: pl. V [5]: fig. 46.

Registration (of name): <http://phycobank.org/105151>

Registration (of lectotype): <http://phycobank.org/105152>

Type locality: Otaki, New Zealand; pond.

Staurastrum refractum var. *elongatum* (Thérézien) Levanets & Janse van Vuuren, *comb. nov.*

Basionym: *Staurastrum inconspicuum* var. *elongatum* Thérézien *Bibliotheca Phycologica* 88: 82, 92, pl. V [5], fig. 18, 1991 (as '*Staurastrum inconspicuum* Nordstedt var. *elongatum*')

Holotype (iconotype): pl. V [5], fig. 18

Registration (of name): <http://phycobank.org/105153>

Type locality: in pond number 1 on the road from Cochabamba to Santa Cruz de la Sierra, "La Silberia", Bolivia: October 1985.

Staurastrum refractum var. *minus* (Schmidle) Levanets & Janse van Vuuren, *comb. nov.*

Basionym: *Staurastrum inconspicuum* var. *minus* Schmidle *Bihang till Kongliga Svenska Vetenskaps-Akademiens Handlingar* 24 (Afh. III, 8): 56, pl. II [2]: fig. 35, 1898 (as '*Staurastrum inconspicuum* Nordstedt var. *minor*')


Lectotype (**designated here**): [icon!] Schmidle 1898: pl. II [2]: fig. 35.

Registration (of name): <http://phycobank.org/105154>

Registration (of lectotype): <http://phycobank.org/105155>

Type locality: near Åbyn, Vesterbotten [Västerbotten County], northern Sweden; in a raised moor, 7 July 1891.

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