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The Cholnoky diatom collection in the Botanical Museum Berlin-Dahlem**Abstract**

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The presence of parts of the Cholnoky diatom collection in the algological collection of the Botanical Museum Berlin-Dahlem is recorded. A list of the Cholnoky material in Berlin, as well as the publications and the names of new taxa based on it are presented.

Introduction

Béla Jenö Cholnoky (1899–1972) lived in Pretoria (South Africa) from 1952 onwards and studied the diatom flora of the African continent, mainly of South Africa (for his personal record see Cramer et al. 1969). He described many new taxa mainly from freshwater habitats and paid much attention to ecological aspects. A survey of the whole Cholnoky diatom collection is given by Schoeman & Meaton (1981). This publication focusses on the Cholnoky material in Pretoria but deals also with the whereabouts of duplicates. For the Federal Republic of Germany two locations are mentioned, where parts of his collection can be found: Friedrich-Hustedt-Arbeitsplatz für Diatomeenkunde, Bremerhaven, and Forschungsinstitut Senckenberg, Frankfurt, Berlin is not included in the list. This note presents the available material of the Cholnoky diatom collection in Berlin.

The Cholnoky diatom collection

The diatom collection of Cholnoky from South Africa consists of slides and unmounted material. Cholnoky usually made six slides from each sample and sent duplicates to different places in the world, without being consistent in the distribution. „Another factor causing difficulties with Cholnoky's material is that he never ringed or marked specific specimens on his slides and therefore left no holotypes or isotypes. Furthermore, he usually had several slides made from each sample and in his published descriptions of a new taxon he simply referred to a sample number and not to a specific slide. We are therefore unable to state which of a number of slides from a particular sample he actually examined. Diatom specimens located on any of his slides can therefore only be regarded as syntypes.“ (Schoeman & Meaton 1981). The largest part of the Cholnoky Diatom Collection is located in the National Institute for Water Research, Pretoria.

The Cholnoky diatom material in Berlin

The herbarium in Berlin holds:

- 1) material from the Cape province (marked K.)

slides: K. 123-360 (232+273 missing); unmounted material: K. 163-176, K. 201-349.

The following publications are based on this slide-series:

Cholnoky & Claus 1961: Sample numbers K. 328-338. Sample numbers given in this publication and sample numbers on the collected material are not the same (see Schoeman & Meaton 1981: tab 19).

Cholnoky 1962: Sample numbers K. 123-175. Sample numbers given in this publication are corresponding to sample numbers on the collected material.

- 2) material from Southwest-Africa (marked SW. A.)

slides: SW. A. 1-215; unmounted material: SW. A. 1-215.

The following publications are based on this slide-series:

Cholnoky 1966a: Sample numbers SW. A. 8-82, 84-87, 93, 151-158, 160-183, 186-197.

Cholnoky 1966b: Sample numbers SW. A. 30-37, 42+43, 63+64, 66, 68-73, 75-79, 83, 94-96, 101, 129-150, 159, 185, 198, 200-213.

For 'SW. A.' series sample numbers given in the publications are corresponding to sample numbers on the collected material.

List of syntypes located in Berlin

As mentioned above, Cholnoky never marked type specimens when describing new taxa, but he referred to one (or several) slide numbers (see list below). The expression „Typus: praeparatum . . .“ is only used for the 'SW. A.' series, the respective slides of the 'K.' series are not specified as such.

Taxon	slide number
<i>Achnanthes buccula</i> Cholnoky (1966a:6)	SW. A. 182
<i>A. sperata</i> Cholnoky (1962:8)	K. 1, 149
<i>Amphiprora turgida</i> Gregory var. <i>africana</i> Cholnoky (1962:11)	K. 160, 162, 163 164, 165
<i>Amphora cognata</i> Cholnoky (1966b:173)	SW. A. 69
<i>A. okawangoi</i> Cholnoky (1966a:8)	SW. A. 171
<i>Caloneis vehemens</i> Cholnoky (1962:15)	K. 165
<i>Cymbella abbottii</i> Cholnoky (1961:329)	K. 7
<i>C. cimbebasiae</i> Cholnoky (1966b:177)	SW. A. 135
<i>Eunotia okawangoi</i> Cholnoky (1966a:17)	SW. A. 170
<i>Fragilaria acerba</i> Cholnoky (1966a:19)	SW. A. 183
<i>F. tabulatoides</i> Cholnoky (1966a:21)	SW. A. 165
<i>Gomphonema pfannkuchae</i> Cholnoky (1966a:24)	SW. A. 183
<i>Navicula abbottii</i> Cholnoky (1961:331)	K. 3, 6, 7
<i>N. angolensis</i> Cholnoky (1966a:30)	SW. A. 169
<i>N. bainii</i> Cholnoky (1962:34)	K. 145
<i>N. camerata</i> Cholnoky (1966a:31)	SW. A. 84
<i>N. gradatoides</i> Cholnoky (1966a:34)	SW. A. 177
<i>N. hariola</i> Cholnoky (1966a:36)	SW. A. 193

<i>N. impossibilis</i> Cholnoky (1966a:37)	SW. A. 162
<i>N. microdicta</i> Cholnoky (1962:42)	K. 160, 161, 162, 163, 164, 166
<i>N. nonana</i> Cholnoky (1966a:39)	SW. A. 84
<i>N. okawangoi</i> Cholnoky (1966a:40)	SW. A. 152
<i>N. parvipendata</i> Cholnoky (1966b:192)	SW. A. 150
<i>N. praedii</i> Cholnoky (1961:334)	K. 5
<i>N. pseudolacertosa</i> Cholnoky (1966a:42)	SW. A. 173
<i>N. runtuensis</i> Cholnoky (1966a:45)	SW. A. 160
<i>N. scottiae</i> Cholnoky (1961:335)	K. 7
<i>N. seminularia</i> Cholnoky (1966a:46)	SW. A. 153
<i>N. silvicola</i> Cholnoky (1966b:195)	SW. A. 130, 131
<i>N. sitiens</i> Cholnoky (1966b:195)	SW. A. 37
<i>N. tentata</i> Cholnoky (1966a:48)	SW. A. 84
<i>N. upupensis</i> Cholnoky (1966a:49)	SW. A. 174
<i>N. vanidica</i> Cholnoky (162:49)	K. 126, 154, 155, 171, 172
<i>N. wellingtonia</i> Cholnoky (1962:50)	K. 136
<i>Nitzschia etoshensis</i> Cholnoky (1966b:201)	SW. A. 94, 206, 207, 208, 209, 210, 211, 212.
<i>N. fontifuga</i> Cholnoky (1962:54)	K. 166
<i>N. obsoletiformis</i> Cholnoky (1966b:204)	SW. A. 94
<i>N. steynii</i> Cholnoky (1966b:207)	SW. A. 30, 36, 71
<i>N. subrostratoides</i> Cholnoky (1966a:59)	SW. A. 84
<i>N. valdissima</i> Cholnoky (1962:61)	K. 154
<i>N. wipplingeri</i> Cholnoky (1966b:208)	SW. A. 32, 33, 210, 212
<i>Pinnularia franciscana</i> Cholnoky (1966a:61)	SW. A. 157
<i>P. heterostricta</i> Cholnoky (1966a:63)	SW. A. 175
<i>Stauroneis abbottii</i> Cholnoky (1961:338)	K. 1, 3, 4, 6, 9, 10
<i>S. cimbebasiae</i> Cholnoky (1966b:213)	SW. A. 133
<i>S. harrisonii</i> Cholnoky (1962:69)	K. 125
<i>S. ruacanae</i> Cholnoky (1966a:70)	SW. A. 87
<i>S. subtropica</i> Cholnoky (1966a:70)	SW. A. 84
<i>S. triundulata</i> Cholnoky (1962:70)	K. 130
<i>Surirella pseudothienemannii</i> Cholnoky (1966a:72)	SW. A. 164

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References

- Cholnoky, B. J. 1962: Beiträge zur Kenntnis der südafrikanischen Diatomeenflora. III. Diatomeen aus der Kaap-Provinz. – *Revista Biol.* **3**: 1–80.
- 1966a: Die Diatomeen im Unterlauf des Okawango-Flusses. – *Beih. Nova Hedwigia* **21**: 1–102.
- 1966b: Diatomeenassoziationen aus einigen Quellen in Südwest-Afrika und Bechuanaland. – *Beih. Nova Hedwigia* **21**: 163–244.
- & Claus, G. 1961: Beiträge zur Kenntnis der Algenflora und der Ökologie der Diatomeen in dem Stausee Wemmershoek-Dam nahe Kapstadt. – *Österr. Bot. Z.* **108**: 325–350.
- Cramer, J., Gerloff, J., Mattick, F. & Poelt, J. 1969: Geburtstagsadresse zum 70. Geburtstag von B. J. Cholnoky. – *Nova Hedwigia* **16**: I–VIII.
- Schoeman, F. R. & Meaton, V. H. 1981: The B. J. Cholnoky Diatom Slide Collection. – CSIR Special Report WAT **59**.

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