

Zeitschrift: Candollea : journal international de botanique systématique = international journal of systematic botany
Herausgeber: Conservatoire et Jardin botaniques de la Ville de Genève
Band: 36 (1981)
Heft: 1

Artikel: New records of Pteridophytes from Angola
Autor: Zogg, Emil / Kramer, Karl Ulrich
DOI: <https://doi.org/10.5169/seals-880051>

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

Download PDF: 23.03.2026

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

New records of Pteridophytes from Angola

EMIL ZOGG
&
KARL ULRICH KRAMER

ABSTRACT

ZOGG, E. & K. U. KRAMER (1981). New records of Pteridophytes from Angola. *Candollea* 36: 115-118. In English, German abstract.

Five new records for Angola and 10 finds new to certain provinces are reported. Result of a study made on the collection of H. and E. Hess from Angola, 1950-1952. The other species of the collection are also enumerated.

ZUSAMMENFASSUNG

ZOGG, E. & K. U. KRAMER (1981). Neufunde von Farnen aus Angola. *Candollea* 36: 115-118. Auf Englisch, deutsche Zusammenfassung.

Die Bearbeitung einer Sammlung von Pteridophyten aus Angola ergab fünf Neufunde für das Land und zehn Neufunde für Provinzen davon. Die anderen in der Sammlung vertretenen Arten werden ebenfalls aufgeführt.

Recently a collection of Pteridophytes made in Angola in 1950-1952 by Hans Ernst Hess and Esther Hess-Wyss was turned over to the authors for identification. In the course of the work a small number of species proved to represent new records for the country; others were already known from Angola but had not yet been recorded from the particular area (province) where they were collected by H. E. Hess and E. Hess-Wyss. This was easily checked with SCHELPE's recent, excellent pteridophytic flora of the country (1977). As fern collections from Angola are not plentiful, and as botanical field work is not likely to proceed at a fast pace at present, it seems worthwhile to publish these finds. A complete set of specimens (in all 79 species) is in the private herbarium of H. E. Hess; most collections are represented by duplicates in the herbarium of the Cantonal University of Zürich (Z).

New records for Angola

Asplenium barteri Hooker. Cuanza Norte: near falls of Rio Canhongua, 20 km N. of Camabatela, gallery forest, *Hess* 52/1175.

Dryopteris inaequalis (Schlechtend.) O. Kuntze. Cuanza Norte: Rio Canhongua, 10 km W. of Camabatela, road to Quitexe, gallery forest, *Hess* 52/1128, 52/1131. This was to be expected in Angola from its overall distribution.

Marsilea gibba A. Braun. Huila: 67 km N. of Mupa, 11 km N. of Cuvelai, *Hess* 52/156. Not previously recorded from West Africa except for an old record from "between Senegal and Niger Rs." (presumably from the present state of Mali) (ALSTON, 1959; LAUNERT, 1968).

Pteris togoënsis Hieronymus. Malanje: near the falls of Bragança, *Hess* 50/102, 51/50. Exact distribution yet to be established by critical work on the "*Pteris quadriaurita* aggregate"; according to ALSTON (1959), even the segregate *Pt. togoënsis* itself is an aggregate species. It was reduced to a variety of *Pt. quadriaurita* Retz. by SCHELPE (1969), with which we cannot agree.

Thelypteris friesii (Brause) Schelpe = *Christella friesii* (Brause) Holttum. Bié: 4 km N. of Missão Cuchi, *Hess* 52/666. To be expected in Angola from its distribution as given by HOLTUM (1974).

New provincial records and other notable finds

Actiniopteris pauciloba Pichi Sermolli. So far only found twice in the country; new to Bié: gorge of Rio Cuchi, 10 km W. of Cuchi, *Hess* 52/651.

Asplenium protensum Schrader. Only reported from Lunda province; new to Cuanza Norte: falls of Rio Canhongua, 20 km W. of Camabatela, gallery forest, *Hess* 52/1174.

Ceterach cordatum (Thunb.) Desv. = *Asplenium cordatum* (Thunb.) Swartz. So far only recorded for Mossamedes and Huila provinces; now found in Benguela: Camela Rocks N. of Missão Quinjenge, *Hess* 52/795.

Didymochlaena truncatula (Swartz) J. Smith. Only recorded from Congo and Benguela provinces, by one collection each. Cuanza Norte: falls of Rio Canhongua, 20 km S. of Camabatela, gallery forest, *Hess* 52/1169.

Isoetes welwitschii A. Braun in Kuhn. Previously only recorded from Angola by the type collection, from Huila province; now found again in this province: Onthite, road to Humpata, Jau, *Hess 52/1671*. Apparently a very rare species.

Menisorus pauciflorus (Hooker) Alston. One record from Cuanza Norte extant; newly found in the province of Congo: ravine near Sanza Pombo, *Hess 52/1215*.

Platynerium elephantotis Schweinf. So far known by three collections from Cuanza Norte; Congo: 7 km N. of Sanza Pombo, epiphytic in gallery forest, *Hess 52/1190*.

Pteris intricata C. H. Wright. A single previous record, from Lunda province; Congo: near Macocola, gallery forest, *Hess 52/1299*.

Selaginella kraussiana (Kunze) A. Braun. Surprisingly scarce in Angola; one record from Cuanza Sul. Malanje: near the falls of Bragança, *Hess 50/54*.

Thelypteris hispidula (Dcne.) Reed = *Christella hispidula* (Dcne.) Holttum. Two previous records from Cuanza Norte; now found much farther South; Benguela: Cassipera area, 30 km from Chicuma to Capala, *Hess 51/410*.

Thelypteris microbasis (Baker) Tardieu-Blot = *Christella microbasis* (Baker) Holttum. Twice reported from Lunda. Malanje: near the falls of Bragança, *Hess 50/56*.

The following species, not constituting any new records, were also collected:

Actiniopteris radiata Link; *Adiantum capillus-veneris* L.; *A. incisum* Forsskål; *A. mettenii* Kuhn; *Anemia angolensis* Alston; *Arthropteris orientalis* (Gmelin) Posthumus; *Asplenium aethiopicum* (Burm. fil.) Becherer; *A. africanum* Desv.; *A. anisophyllum* Kunze; *A. currorii* Hooker; *A. dregeanum* Kunze; *A. formosum* Willd.; *A. inaequilaterale* Willd.; *A. unilaterale* Lam.; *Azolla pinnata* R. Br.; *Blotiella currorii* (Hooker) R. M. Tryon; *Bolbitis acrostichoides* (Swartz) Ching; *Cheilanthes inaequalis* (Kunze) Mett.; *Ch. welwitschii* Hooker ex Baker; *Ctenitis cirrhosa* (Schum.) Ching; *Ct. currorii* (Mett. ex Kuhn) Tardieu-Blot; *Ct. pilosissima* (J. Smith) Alston; *Ct. protensa* (Afz. ex Swartz) Ching var. *speciosa* (Mett. ex Kuhn) C. Chr. in Schelpe;¹ *Cyathea camerooniana* Hooker; *C. dregei* Kunze; *C. manniana* Hooker; *Dicranopteris linearis* (Burm. fil.) Underw.; *Doryopteris concolor*

¹Cited as "C. Chr. in Perrier, Cat. Pl. Madag.: 29 (1932)" by SCHELPE (1977); this is incorrect, as the combination appears under *Dryopteris*. Christensen did not recognize a genus *Ctenitis* until 1938.

(Langsd. & Fischer) Kuhn var. *kirkii* (Hooker) R. E. Fries; *Dryopteris athamantica* (Kunze) O. Ktze; *Equisetum ramosissimum* Desf.; *Loxogramme lanceolata* (Swartz) Presl; *Lycopodium carolinianum* L. var. *grandifolium* Spring and var. *affine* (Bory) Schelpe; *L. cernuum* L.; *Lygodium microphyllum* (Cav.) R. Br.; *Marattia fraxinea* J. E. Smith; *Marsilea macrocarpa* Presl; *Microlepia speluncae* (L.) Moore; *Microsorium scolopendria* (Burm. fil.) Copel.; *Mohria caffrorum* (L.) Desv.; *Nephrolepis biserrata* (Swartz) Schott; *N. undulata* (Afz. ex Swartz) J. Smith; *Osmunda regalis* L.; *Pellaea calomelanos* (Swartz) Link; *P. doniana* J. Smith ex Hooker; *P. pectiniformis* Baker; *P. viridis* (Forsskål) Prantl var. *viridis* and var. *involuta* (Swartz) Schelpe; *Pteridium aquilinum* (L.) Kuhn in v.d. Decken subsp. *aquilinum* var. *aquilinum*; *Pteris* spec., possibly *Pt. atrovirens* Willd. × *Pt. burtonii* Baker; *Pt. cretica* L.; *Pt. friesii* Hieron.; *Pt. hamulosa* Christ; *Pt. repens* C. Chr.; *Pt. vittata* L.; *Selaginella mittenii* Baker; *S. molliceps* Spring; *S. myosuroides* (Swartz) Alston; *S. versicolor* Spring; *Sphenomeris afra* Kramer; *Tectaria gemmifera* (Fée) Alston; *Thelypteris afra* (Christ) Reed; *Th. confluens* (Thunb.) Morton; *Th. interrupta* (Willd.) K. Iwatsuki; *Th. (Ampelopteris) prolifera* (Retz.) Reed; *Trichomanes cupressoides* Desv. (*T. rigidum* Swartz s.l.).

ACKNOWLEDGMENTS

The authors are much indebted to Prof. H. E. Hess, Zürich, for entrusting the material to them; and to Prof. R. E. Holttum, Kew, and Dr. E. Launert, London, for checking certain identifications (species of *Thelypteris* and *Marsilea*, respectively).

REFERENCES

- ALSTON, A. H. G. (1959). *The ferns and fern-allies of West Tropical Africa*. London.
- HOLTTUM, R. E. (1974). Thelypteridaceae of Africa and adjacent islands. *J. S. African Bot.* 40: 123-168.
- LAUNERT, E. (1968). A monographic survey of the genus *Marsilea* Linnaeus. I. The species of Africa and Madagascar. *Senckenberg. Biol.* 49: 273-315.
- SHELPE, E. A. C. L. E. (1969). Reviews of tropical African Pteridophyta 1. *Contr. Bolus Herb.* 1: 1-132.
- (1977). Pteridophyta. In: R. B. FERNANDES, E. LAUNERT & E. J. MENDES (eds.), *Conspectus Florae Angolensis*. Lisboa.