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New records of Pteridophytes from Angola

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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.).

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