NEW RECORDS FOR PUERTO RICAN PTERIDOPHYTES

S.W. SHAW, M.S. BARKER & R.J. HICKEY

Department of Botany, Miami University, Oxford, OH 45056 USA, Present address: Department of Biology, Indiana University, Bloomington, IN 47405 USA, 

Key words: Puerto Rico, ferns, Caribbean, floristics

ABSTRACT
During a 2001-2002 collecting trip to Puerto Rico, eleven pteridophytes were collected that are Puerto Rican município records. Of the 11 collections, one is a Puerto Rican endemic Selaginella. For each specimen, we provide full collection data and previously known Puerto Rican distributions for the species.

INTRODUCTION
In late December 2001 through early January 2002, we collected eleven pteridophytes that are Puerto Rican município records. Previous Puerto Rican distributions for these taxa were obtained from Proctor (1989) and Barcelona (2000). Of the 11 taxa we collected, one was a Puerto Rican endemic (Selaginella krugii Hieron.) previously found in only four municípios. Alternatively, six common pteridophytes were recorded for the first time from Sabana Grande, suggesting that this area may have been overlooked by pteridologists in the past. The following records are arranged phylogenetically by family.

RESULTS

Selaginella krugii Hieron. Selaginellaceae
RECORD VOUCHER: Puerto Rico, Município de Jayuya, growing under the shade of tree ferns and other plants in moist soil in the forest on the north side of Rt. 143 near km 16.2, 29 December 2001, M. S. Barker #144 and S. W. Shaw (MU).
PREVIOUSLY KNOWN PUERTO RICAN DISTRIBUTION: Cayey, Ceiba, Naguabo, and Rio Grande.
GENERAL DISTRIBUTION: Endemic to Puerto Rico.

Cyathea andina (Karst.) Domin Cyatheaceae
RECORD VOUCHER: Puerto Rico, Município de Jayuya, growing in moist soil beside roadway in medium to full sun along Rt. 143 approximately 11 km north of Rt. 10, 1 January 2002, M. S. Barker #204 and S. W. Shaw (MU).
PREVIOUSLY KNOWN PUERTO RICAN DISTRIBUTION: Adjuntas, Arecibo, Maricao, and Orocovis.
GENERAL DISTRIBUTION: Hispaniola, Puerto Rico, and South America.

Odontosoria aculeata (L.) John Smith Lindsaeaceae
RECORD VOUCHER: Puerto Rico, Município de Sabana Grande, growing in full sun on rocks near a rock wall beside Rt. 120 just past km marker 9, 30 December 2001, M. S. Barker #167 & 168 and S. W. Shaw (MU).
Previously known Puerto Rican distribution: Aguas Buenas, Barranquitas, Bayamon, Caguas, Cayey, Fajardo, Maricao, Mayaguez, Naguabo, Patillas, Rio Grande, San German, San Juan, Utuado, and Villalba.

General distribution: Greater Antilles (except Jamaica), St. Thomas, St. John, and Tortola.

*Adiantum capillus-veneris* L.  
**Adiantaceae**

**Record Voucher:** Puerto Rico, Municipio de Sabana Grande, growing on a shady, moist rock wall next to Rt. 120 past km 9. Found intermixed with *Polypodium polypodioides* var. *polypodioides* (L.) Watt, 30 December 2001, M. S. Barker #169 and S. W. Shaw (MU).

Previously known Puerto Rican distribution: Coamo, Guayanilla, Salinas, and San Juan.

General distribution: Cosmopolitan in tropical, subtropical, and warm-temperate regions.

*Adiantum pyramidale* (L.) Willd.  
**Adiantaceae**

**Record Voucher:** Puerto Rico, Municipio de Maricao, growing along a partly shaded roadside in moist serpentine derived soil beside a small waterway along Rt. 120 near km marker 113, 30 December 2001, M. S. Barker #172 and S. W. Shaw (MU).

Previously known Puerto Rican distribution: Adjuntas, Aguas Buenas, Arecibo, Barranquitas, Bayamon, Cayey, Coamo, Guayanilla, Guaynabo, Gurabo, Isabela, Mayaguez, Naranjito, Quebradillas, Toa Baja, Utuado, Vega Alta, Yabucoa, and Yauco.

General distribution: Greater and Lesser Antilles.

*Thelypteris hispidula* (Decne.) Reed var. *hispidula*  
**Thelypteridaceae**

**Record Voucher:** Puerto Rico, Municipio de Jayuya, growing on the side of Rt. 143, north of 10, ca. 11km near the edge of the forest in moist soil in full to medium sun, 1 January 2002, M. S. Barker #206 and S. W. Shaw (MU).

Previously known Puerto Rican distribution: Corozal, Maricao, and San German.

General distribution: Greater and Lesser Antilles, Tobago, Trinidad, continental tropical America from Mexico to Bolivia, tropical Africa, and Malesia.

*Blechnum occidentale* L.  
**Blechnaceae**

**Record Voucher:** Puerto Rico, Municipio de Sabana Grande, growing among grasses at the edge of a cliff in full sun along Rt. 120 just past km marker 9, 30 December 2001, M. S. Barker #171 and S. W. Shaw (MU).

Previously known Puerto Rican distribution: Adjuntas, Aibonito, Arecibo, Barranquitas, Bayamon, Cabo Rojo, Caguas, Cayey, Guayanilla, Guaynabo, Gurabo, Las Marias, Luquillo, Maricao, Mayaguez, Naguabo, Naranjito, Ponce, Quebradillas, Rio Grande, San German, San Juan, Trujillo Alto, Utuado, Vega Alta, Yabucoa, and Yauco.

General distribution: Widespread in tropical and subtropical areas from Florida to Argentina.

*Phlebodium aureum* (L.) John Smith  
**Polypodiaceae**

**Record Voucher:** Puerto Rico, Municipio de Sabana Grande, growing in full sun on rocks near a rock wall along Rt. 120 close to km marker 9, 30 December 2001, M. S.

...
Barker #166 and S. W. Shaw (MU).

PREVIOUSLY KNOWN PUERTO RICAN DISTRIBUTION: Adjuntas, Aibonito, Barranquitas, Bayamon, Cayey, Dorado, Isabela, Juana Diaz, Manati, Quebradillas, Rio Grande, Salinas, and Yauco.

GENERAL DISTRIBUTION: Florida, Bahamas, Greater Antilles, Lesser Antilles, Trinidad, and continental tropical America.

**Pleopeltis polypodioides** (L.) E. G. Andrews & Windham Polypodiaceae

RECORD VOUCHER: Puerto Rico, Município de Sabana Grande, growing on a shady, moist rock wall adjacent to Rt. 120 past km 9. Found intermixed with *Adiantum capillus-veneris* L., 30 December 2001, M. S. Barker #165 and S. W. Shaw (MU).

PREVIOUSLY KNOWN PUERTO RICAN DISTRIBUTION: Adjuntas, Aibonito, Arecibo, Barranquitas, Bayamon, Cayey, Ciales, Isabela, Juana Diaz, Maricao, Ponce, Vega Alta, Villalba, Yabucoa, and Yauco.

GENERAL DISTRIBUTION: Bahamas, Greater Antilles, Cayman Islands, Lesser Antilles, and continental tropical America from Mexico to Costa Rica and Venezuela.

**Polypodium sororium** Humb. & Bonp. ex Willd. Polypodiaceae

RECORD VOUCHER: Puerto Rico, Município de Sabana Grande, growing on a well shaded, moist rock wall along Rt. 120 near km marker 9, 30 December 2001, M. S. Barker #170 and S. W. Shaw (MU).


GENERAL DISTRIBUTION: Greater and Lesser Antilles, and continental tropical America.

ACKNOWLEDGMENTS

We would like to thank the Puerto Rico department of Natural and Environmental Resources for providing the collecting permits, the Willard Sherman Turrell Herbarium at Miami University (MU) for financing our travel, Dr. David Conant for assistance with travel logistics and Cyatheaceae determinations, and Ken Grabach for map assistance.

REFERENCES


INSTRUCTIONS FOR AUTHORS

PAPERS should not usually exceed 20 printed pages and are generally expected to be considerably shorter. Review articles, as well as reports of original research, are encouraged. Short notes are acceptable e.g. new records. The senior author should supply a fax and email address to facilitate correspondence.

MANUSCRIPTS should be submitted in English (British) in electronic format (preferably) or hard copy (two copies), in 10-point Times New Roman font and double spaced. Electronic versions of text and tables should be compatible with WORD, with figures as pdf or jpg files, and sent as email attachments or CDroms. All manuscripts will be refereed.

THE TITLE should reflect the content of the paper and be in BOLD CAPITALS (11-point) and centrally aligned. Generic and specific names should be in italics and any title containing a generic or specific name must be followed by the family and Pteridophyta in brackets e.g.

TRICHOMANES SPECIOSUM (HYMENOPHYLLACEAE: PTERIDOPHYTA) IN SOUTHERN SPAIN

AUTHOR ABBREVIATIONS should follow Pichi Sermolli’s (1996) Authors of scientific names in Pteridophyta, Royal Botanic Gardens, Kew.

MAIN HEADINGS: should be in BOLD CAPITALS (10-point) and centrally aligned.

SUBSIDIARY HEADINGS: should be in bold, the first letter of each word in capitals, the rest in lower case and left-aligned.

AUTHORS’ NAMES AND FULL ADDRESSES: follow the title and are centrally aligned.

KEY WORDS: up to ten.

ABSTRACT: should reflect the content of the paper.

FIGURES: there is no distinction between photographs and line drawings in numbering. All should be presented in a form ready for reproduction, ideally in JPG format (please contact editor with queries), with a scale bar where appropriate. Lettering or numbers (Arabic) should be in the bottom left using uppercase Times Roman and be sufficiently large to be legible if reduction is necessary during printing. The number of photographs allowed in any one issue is limited by cost. Figure captions should be on a separate sheet.

TABLES: can be printed in either portrait or landscape format. Authors should consider this when preparing tables. Authors should ensure that tables fit the printed page size in a legible form.

MEASUREMENTS: should follow the metric system.

CHECKLISTS: should follow the format of Baksh-Comeau, Fern Gaz. 16(1, 2): 112.


JOURNAL ABBREVIATIONS: should follow Botanico Periodicum Huntianum & Supplements.

Alterations from the original text at proof stage will be charged for unless they are minor points of detail. Twenty-five offprints will be supplied free to the senior author.