

PRESENCE OF *HABRANTHUS CARDENASIANUS* (AMARYLLIDACEAE) IN ARGENTINA

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Summary: *Habranthus cardenasianus* (Amaryllidaceae), a species formerly described from Bolivia, is cited for the first time from Argentina. The distribution and ecology of the species are referred, and six Argentinian species are reduced to nomenclatural synonyms.

Key words: *Habranthus cardenasianus*, Amaryllidaceae, geographical distribution, taxonomy.

Resumen: Presencia de *Habranthus cardenasianus* (Amaryllidaceae) en Argentina. Esta especie originalmente descrita para Bolivia, se cita por primera vez para la Argentina. Se menciona su distribución geográfica y su ecología y se reducen a la sinonimia 6 especies argentinas.

Palabras clave: *Habranthus cardenasianus*, Amaryllidaceae, distribución geográfica, taxonomía.

INTRODUCTION

Traub and Nelson (1957) described *Habranthus cardenasianus*, from bulbs collected by the second author near Santa Cruz, Bolivia. The species was cultivated in a private garden in California and seeds of it were sent to A. Castillo, some years ago.

During the last years we collected this species in the Provinces of Córdoba, Catamarca, Jujuy, Salta and Santiago del Estero and found other specimens from Argentina belonging to it in different Herbaria, including the types of *Habranthus cordobensis* Ravenna, *H. crassibulbus* Ravenna, *H. maasii* Ravenna, *H. spectabilis* Ravenna, *H. steyermarkii* Ravenna and the paratype of *H. niveus* Ravenna, now reduced to synonyms (Ravenna, 1970a, 1970b, 1978, 1999 and 2001).

Bulbs collected in the field, in the places where the original collections was made and new locations, were cultivated in the "Lucien Hauman" Botanical Garden (Facultad de Agronomía, Universidad de Buenos Aires, 34° 36' S, 58° 28' W) and J. O. Hall Garden

(Facultad de Agronomía, Universidad de Buenos Aires, 34° 35' S, 58° 30' W). We observed that plants produce bulblets and the flowers are white with the lower part greenish during the first day, turning to pinkish later. Each bulb produce 1-5 flowers per season, during a month or more. When the first flower appears leaves are not present, but the rest of floration occurs with leaves developing or well developed. In the field, we observed variation in bulb size within the same population.

RESULTS

Habranthus cardenasianus Traub & I.S. Nelson, Plant Life 13: 69. 1957. Holotype: UNITED STATES. California. cult. La Jolla. 24-V-1956. Traub 542. From bulbs collected by Ira S. Nelson, about 35 km E-NE Santa Cruz, Bolivia, on Hacienda Souce, in deep black sandy loam. In fields recently cleared of deciduous jungle growth (MO!).

Syn: *Habranthus spectabilis* Ravenna, Not. Mens. Mus. Nac. Hist. Nat., Santiago, 15. No. 173, 6 1970b. ARGENTINA. Prov. Jujuy: Dpto. Ledesma. Yuto. 8 km al S. Flor blanca por dentro y lilácea por fuera. 21/X/64. A. Cabrera & H.A. Fabris 16209

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(Holotypus: SI!). *Habranthus niveus* Ravenna, Plant Life 26: 95. 1970a. ARGENTINA: *Catamarca: Dpto. Andalgalá*. La Aguada; Leg. Ravenna 113, XII-1961 (Holotypus: Herbario Ravenna, not available). *Habranthus maasii* Ravenna, Plant Life 34: 85. 1978. *Jujuy: Dpto. San Lorenzo*. Río San Lorenzo, Leg. Lorentz et Hieronymus, Ende-X-1873. (Holotypus: NY!, Phototype). *Habranthus steyermarkii* Ravenna, Plant Life 34: 85-86. 1978. *Jujuy: Dpto. Ledesma*. Estación Calilegua, San Lorenzo, Leg. Joergensen-Hansen, XI-1911 (Holotypus:SI!). *Habranthus crassibulbus* Ravenna, Onira 3: 63. 1999. *Santiago del Estero: Dpto. Robles*. Beltrán, R. Maldonado-Bruzzone 522, 28-XI-1940, (Holotypus: LP!). *Habranthus cordobensis* Ravenna, Onira 6: 42.2001. *Córdoba. Dpto. San Javier*. "La Barranca". Castellano s-n, 14-I-1934. BA 30987 (Holotypus BA!).

Bulbs 30-50 mm long and 25-70 mm wide, with bulblets. Leaves lighth green, glaucescent, linear 9-30 cm long and 3-13 mm wide. Present or absent during anthesis. Scape 5-27 cm tall, glaucescent, one flowered. Spathe pinkish to reddish, at anthesis 3-5

cm long. Pedicel 3-8 cm long, lighth green. Ovary 6-10 mm, 3-5 mm in diameter. Flower declined, perigone 3.5-7 cm long, white during the first day, then pinkish specially in the upper 1/3 and yellowish-greenish bellow on outside. External tepals oblanceolate, acute, up to 4.5-6.3 cm long., 1.5-2.0 cm wide. Internal tepals narrowly oblanceolate, acute, 4.2-5.8 cm long., 10-14 mm wide. Stamens shorter than the style, disposed at four different levels, lengths; upper episepal 11-13 mm long, lateral episepal 13-15 mm long, lateral epipetal 15-17 mm long, lower epipetal 17-19 mm long. Anthers markedly falcate after the release of pollen, 8-14 mm long. Style 25-35 mm long, stigma trifid, with filiform recurved forks 2-3 mm long. Capsule subglobose, 20-25 mm long x 17-21 mm wide, redish with a green line in the nervaduras. Seeds black 7-9 mm long. (Fig 2).

Distribution and ecology: In sandy soils in deciduous forest, shrublands and near rail-roads in Bolivia and Argentina. In Argentina in the provinces of Salta, Jujuy, Catamarca, Santiago del Estero and Córdoba (Fig. 1).

ARGENTINA. *Catamarca: Dpto. Andalgalá*.

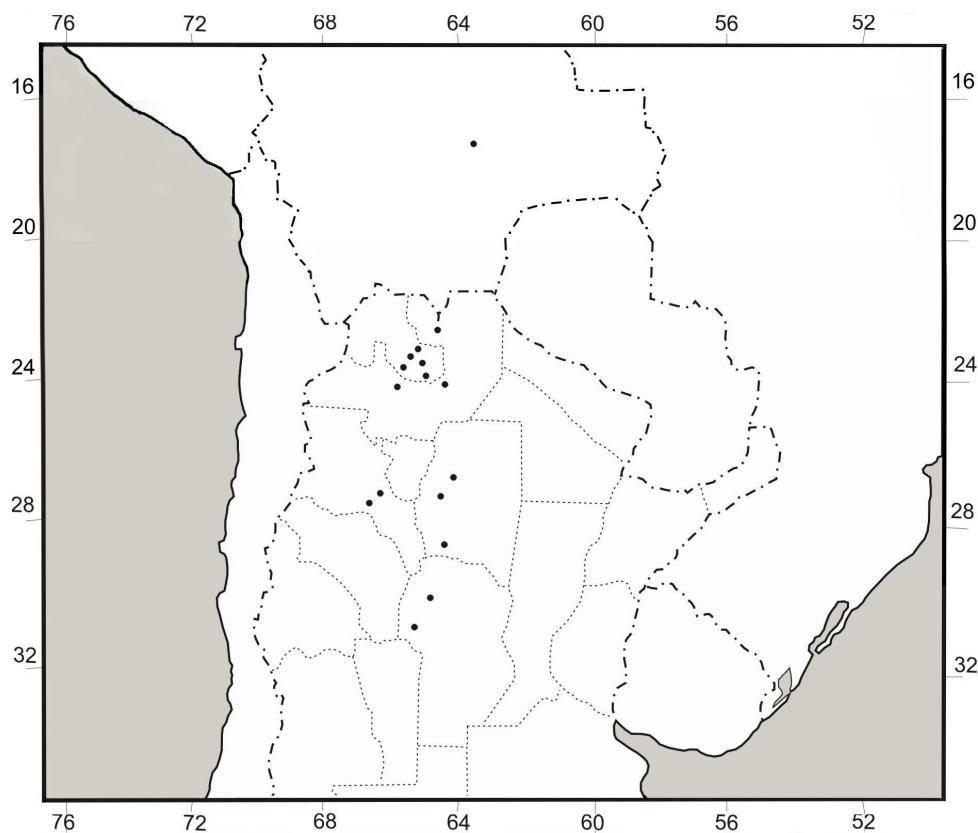


Fig. 1. Geographic distribution of *Habranthus cardenasianus*.

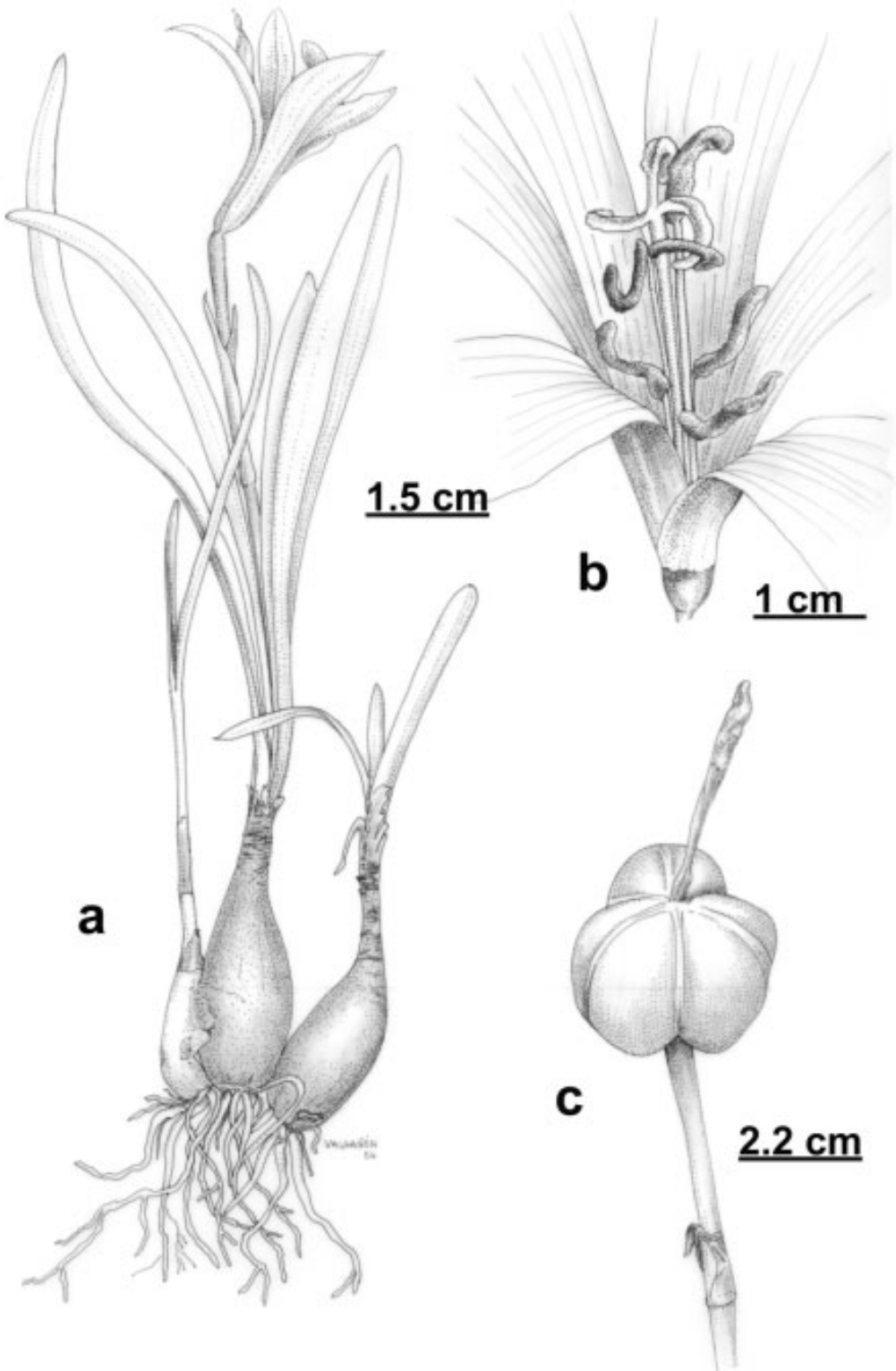


Fig. 2. *Habranthus cardenasianus* (a-c: Castillo *et al.* sn BAA 21703). **a.** plant, **b** detail of the stamens, style and stygma, **c** fruit.

Andalgalá. Abundante en campo seco. Flor grande blanca a rosadito. 6-12-1915 P. Jörgensen (BA 16755). Cited as *Habranthus niveus* (Ravenna, 1970a).

Córboba: Dpto. Punilla. Escobas 15 km al N de Capilla de Monte, vías del ex ferrocarril F.C. Belgrano. A. Castillo et al. 8-XII-1989. Flor blanca, tubo amarillo, dorso del tépalo con banda marrón clara. Abierta a mediodía, abundante. Colección de bulbos y semillas. (BAA 21703).

Jujuy: Dpto. Ledesma. Calilegua, disturbed ground beside road, bulbous perennial, periant white within tinger purple towards the tips without anthers yellow stigma cream S.S. Renvoize 3459, 14-XI-78 (SI). *Dpto. San Pedro.* Al E de San Lucas, 13/XI/73. Flor blanco-lila. Cabrera et al. 24038 (SI). *Dpto. Manuel Belgrano.* Camino a San Pedro. Entre Las Lajitas y San Pedro, Cabrera et al 34583, 18-XI-1983. (SI)

Salta: Dpto. Capital. Cercanías del Aeropuerto de Salta, 11-XI-03, Roitman y Neumann sn (BAA). *Dpto. Orán.* Ruta 41 El Pichanal y vías del ferrocarril. 12-XI-03. Roitman y Neumann sn (BAA)

Santiago del Estero: Dpto Loreto. Loreto. M. Birabén 13, 13-XI-1939 (LP). *Dpto. Ojo de Agua.* Ruta 9 km 954 A. Castillo, P. O Farrell & J.J. Valla sn 9-XII-1990. Tépalos blancos, parte distal rosada, tubo amarillento. (BAA 21890).

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