FLOSCALDASIA (ASTERACEAE: ASTEREAE): FIRST RECORD FROM ECUADOR AND COMMENTS ON ITS CLASSIFICATION

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ABSTRACT

Floscaldasia hypsophila, previously known only from Colombia, is here added to the flora of Ecuador, where it is known by a single collection from Imbabura Province. Contrary to a recent alignment, the North Andean and Central American genera Floscaldasia, Laestadia, Westoniella, and Flosmutisia are hypothesized to be specialized members of the subtribe Hinterhuberinae.

KEY WORDS: Floscaldasia, Hinterhuberinae, Astereae, Astereae, Ecuador

Study of collections at US has brought to light the first known collection of Floscaldasia hypsophila Cuatrecasas from Ecuador.

ECUADOR. Prov. Imbabura, NE side of Cayambe Mountain, 13,500 ft, forming small mats on topmost sides of Azorella hummocks, 12 Dec 1961, Cazalet & Pennington 5751 (US!, distributed to K, NY, and B).

The species constitutes a monotypic genus of the subtribe Hinterhuberinae that has previously been known only from the Cordillera Central and Cordillera Oriental of Colombia: the type was collected in Páramo del Quindio (Depto. Caldas) and other collections (US) are known from Nevado del Ruiz (Depto. Caldas) and the Sierra Nevada del Cocuy (Depto. Boyacá). Plants of Floscaldasia hypsophila occur in páramo at elevations of 4100-4550 meters, forming cushions on wet rocks or intermixed with other species of cushion plants. These Colombian localities are more than 600 kilometers from the one known in Ecuador.

The genus Floscaldasia Cuatrecasas was originally placed within the subtribe Asterinae by Cuatrecasas (1969), later suggested to be a member of the Grangeinae (Robinson & Brettell 1973), and tentatively maintained there or in the Bellidinae by Cuatrecasas (1986). In a recent circumscription of the

subtribe Hinterhuberinae (Nesom 1993), I excluded all of the genera placed there by Cuatrecasas (1986), except the generitype, and then repopulated the subtribe with a different set of genera apparently closely related to Hinterhubera. However, at the end of my review of Astereae classification (Nesom in prep.) and after studying a large set of specimens of the North Andean and Central American genera Floscaldasia, Laestadia Kunth ex Less., Westoniella Cuatrecasas, and Flosmutisia Cuatrecasas, I conclude that these indeed belong with Hinterhubera, where they are among the most highly specialized elements in the subtribe.

Floscaldasia is remarkably similar in its creeping habit and reduced leaves to Laestadia and both have pseudohermaphroditic central flowers; in fact, the Ecuadorian collection cited above has lain unrecognized because it was inadvertently annotated as a species of Laestadia. Plants of Laestadia, however, have punctate-glandular leaves, tubular-actinomorphic peripheral flowers, and epappose achenes. The thick, entire, linear leaves, and the 6-10-nerved achenes suggest that it belongs with the Hinterhuberinae, and I regard its similarities to genera of Grangeinae as convergent. The morphological and geographic proximity of Laestadia to other genera here regarded as Hinterhuberinae add weight to this hypothesis.

The monotypic Flosmutisia Cuatrecasas is similar in habit to Oritrophium (Kunth) Cuatrecasas, another highly reduced, North Andean genus of Hinterhuberinae. Flosmutisia, however, has flat achenes and highly modified peripheral corollas derived from central flowers, and it is almost certainly closely related to Hinterhubera, Westoniella, and the Mexican genus Aztecaster Nesom. Westoniella (Cuatrecasas 1977) is similar to Hinterhubera in its ericoid leaves, pseudohermaphroditic central flowers, modified peripheral flowers, and flattened achenes, and one group of its species are similar in habit as well.

Blakiella Cuatrecasas, which Cuatrecasas has included in the Hinterhuberinae, belongs with a group of Astereaean genera separate from the Hinterhuberinae (Nesom in prep.).

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