The Native Species of *Senecio* (Compositae) in Hawaii

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Two species of *Senecio* were described by early botanists as native to the Hawaiian Islands. One, *S. capillaris* Gaud., was re-studied by the writer (St. John 1965:432) and assigned to a different genus, as *Tetromolopium capillare* (Gaud.) St. John. The other species, *S. sandwicensis* Less., has long seemed dubious. Its type specimen was collected in 1816 by J. F. von Eschscholtz on the voyage of the Russian ship, the *Rurick*. It has never been collected again. Through the courtesy of the curator of the herbarium of the Botanical Institute, Academy of Science, Leningrad, the holotype sheet was received as a loan. It bears a good specimen, with two stems, five leaves, and an ample inflorescence. It has been studied carefully, and the writer is convinced that it is a genuine *Senecio*. He has had long experience with the Hawaiian flora, and to him this plant does not have an Hawaiian aspect. It looks like a meadow species from the Northern Hemisphere.

It is possible that there is an error in the label, and that the collection was made elsewhere on the world voyage. With this in mind, the writer has checked the species of *Senecio* known to grow at the other localities visited on the *Rurick* voyage, viz: Canary Islands, Brazil, Tierra del Fuego, Washington Island, the Marquesas, Pitcairn, Samoa, Marshall, Kamtschatka, California, Japan, Macao, China, Ryukyu Islands, Java, and St. Helena Island. None of these many species agree in structure with *S. sandwicensis*. Consequently, it should be accepted as a true Hawaiian species, but one certainly now extinct. To make it better known, a more detailed diagnosis, a photograph, and a line drawing of it (Figures 1, 2) are here presented. It seems to be most similar to *S. hydrophilus* Nutt., of the northwestern United States.


Figures 1, 2


**EXPANDED DIAGNOSIS OF HOLOTYPE:** Herb, probably perennial, 34 cm tall; stem 21 cm tall, erect, simple, terete, glabrous; cauline leaves about 4, all reduced to bracts 15–25 mm long, 4–5 mm wide, lanceolate; basal leaves with petioles 4–5.4 cm long, glabrous;

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1 Manuscript received 15 December 1975.
2 Bernice P. Bishop Museum, P.O. Box 19000-A, Honolulu, Hawaii 96819.
FIGURE 1. *Senecio sandwicensis* Less., holotype in herb (LE)
the blades 7.5–10 cm long, 1.9–3.2 cm wide, narrowly elliptic, entire, pinnately veined; bracts of pedicels few, small, remote from the heads; heads discoid, several in a glabrous panicle; phyllaries in 1 series, equal, 7 mm long, 1.8–2 mm wide, lance oblong, the body foliaceous, green, glabrous, but the broad margins pale and hyaline; disk florets about 20; achenes 3.5–5 mm long, 0.5–0.7 mm in diameter, prismatic, glabrous, dark brown; pappus hairs 3–4 mm long, numerous, white; disk corolla 6 mm long.
(yellowish?), the tube 2–2.3 mm long, narrowly tubular, glandular, the limb 3.7–4 mm long, the lower 1/3 narrowly ellipsoid, the upper 2/3 ellipsoid, the 5 lobes 0.5–0.6 mm long, ovate, erect; filaments fused to the corolla tube to its summit, the free tips 1.5 mm long, filiform, contorted; anthers 2.5 mm long, narrowly oblong, included except for the free tips 0.2–0.3 mm long, ovate; the 2–3 stigmatic lobes 0.1–0.2 mm long.

HOLOTYPE: Sandwich Islands, O Wahu, Eschscholtz, Hb. Cham[isso], (LE). (= Hawaiian Islands, Oahu). Type examined.

LITERATURE CITED