

**Grimmia brachydictyon (Card.) Deguchi - J. Sci. Hirosh.
Univ. 16: 172-178. 1978.**

Type: Japan, Namikawa, 800 m., Faurie No. 2807, holotype PC!; isotypes, H-BR!, NY.

Synonyms: *Racomitrium patens* var. *brachydictyon* Cardot, *Grimmia hartmanii* var. *japonica* Broth., *G. patens* var. *brachydictyon* (Card.) Ihs.

Distribution: As.2

Description

Grimmia brachydictyon grows in loose tufts, yellowish-green to blackish-green, the leaves are appressed when dry, widely spreading when moist, ovate-lanceolate with brownish-green gemmae at leaf tips, keeled above, the costa is stout, percurrent, projecting with one or two lamellae on dorsal side, hair-points are absent, or as a few hyaline cells present at leaf tips, the margins are recurved on both sides below, plane above. The distal areolation is unistratose with some bistratose ridges, margins bistratose, mid-leaf cells quadrate to short-rectangular with incrassate and sinuose walls, basal marginal cells quadrate with thickened transverse walls, basal juxtacostal cells rectangular with incrassate walls. The sexuality is dioicous, capsules on 3-4 cm long, slightly arcuate setae are occasionally present, they are clavate-obloid, smooth, with rostrate operculum.

Discussion

Grimmia brachydictyon, endemic to Japan, is close to *G. hartmanii* Schimp. Deguchi (1978) examined and compared both taxa carefully and made it clear that there are distinct morphological characters for recognition at specific level, especially because *G. hartmanii* is a larger species with firm hair-points always present, and capsules extremely rare. Muñoz & Pando (2000) synonymized it with *G. hartmanii*. However, after comparison of fruiting *G. brachydictyon* with fresh material and herbarium specimens of *G. hartmanii*, I agree with Deguchi and Noguchi (1988) that *G. brachydictyon* is a distinct species.

Specimens examined

Japan. Furiko-dani valley, Mt. Daisen Tottori, alt. 1200 m, on boulder near a stream, leg. M. Mizutani, 23-07-1958, L!; Rishiri Island, Hokkaido, alt. 550 m, leg. H. Deguchi, 26-07-1973; Hokkaido, Prov. Soya, Himenuma, Higashi-rishiri-cho, Rishiri-gun, alt. 130 m, leg. H. Deguchi nr. 12165, 27-07-1973; Hokkaido, Prov.

Abashiri, Mt. Rausu, Shari-cho, Shari-gun, alt. 720 m, leg. H. Deguchi nr. 12549, 14-08-1973;

References

- Deguchi, H. 1978. A revision of the genera *Grimmia*, *Schistidium* and *Coscinodon* (Musci) of Japan. *J. Sci. Hiroshima Univ. Ser. B., Div. 2, Bot. 16*: 121-256.
- Muñoz, J. & F. Pando. 2000. A world synopsis of the genus *Grimmia* (Musci, Grimmiaceae). *Monogr. in Syst. Bot. from the Missouri Bot. Gard. Vol. 83*.
- Noguchi, A. 1988. *Illustrated Moss Flora of Japan, Part 2*. Hattori Botanical Laboratory.