



Notes on Early Land Plants Today. 50. *Radula sainsburiana* is a synonym of *R. helix* (Radulaceae, Marchantiophyta)

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Radula helix was described as *Jungermannia helix* from a specimen collected by J.D. Hooker on Hermite Island, Tierra del Fuego during the Antarctic expedition of HM Ships *Erebus* and *Terror*.

A century later *Radula sainsburiana* was described from a collection made by G.O.K. Sainsbury on Mt Ruapehu in the North Island of New Zealand. Subsequently *Radula sainsburiana* was reported for Tasmania by Renner (2005).

Radula sainsburiana specimens from Tasmania, New Zealand, and southern South American collections attributed to *R. helix* share all salient morphological characters, including the parvicous inflorescence, the tightly inrolled lobules, the yellow-green colour, and the habit of forming dense interwoven mats. The shared morphological and ecological similarity of individuals from all three regions is consistent with membership to a single species. *Radula helix* is so far the only *Radula* species having a circum-Subantarctic range disjunction.

The format of this note follows what is outlined in Söderström *et al.* (2012).

Radula helix (Hook.f. *et* Taylor) Gottsche *et al.* Syn. Hepat. 2: 260, 1845 (Gottsche *et al.* 1845).

Basionym:—*Jungermannia helix* Hook.f. *et* Taylor, *London J. Bot.* 3: 475, 1844 (Hooker & Taylor 1844).

Type:—CHILE. Hermite Island, Cape Horn, 1843, *J.D. Hooker*. (FH!, BM, NY)

= *Radula sainsburiana* E.A.Hodgson. *et* Allison, *Trans. & Proc. Roy. Soc. New Zealand* 74: 279, 1944 (Hodgson 1944) *syn. nov.*

Type:—NEW ZEALAND. North Island: Mt Ruapehu, Tongariro National Park, *G. O. K. Sainsbury s.n.* (MPN!).

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References

- Gottsche, C.M., Lindenberg, J.B.G. & Nees von Esenbeck, S.G. (1845) *Synopsis Hepaticarum, fasc. 2*. Meissner, Hamburg, pp. 145–304.
<http://dx.doi.org/10.5962/bhl.title.15221>
- Hodgson, E.A. (1944) New Zealand Hepaticae (Liverworts) IV. A review of the genus *Radula*. *Transactions of the Royal Society of New Zealand* 74: 273–287.
- Hooker, J.D. & Taylor, T. (1844) Hepaticae Antarcticae. Being an account of plants discovered in the southern circumpolar regions during the voyage of H. M. Discovery Ships “Erebus” and “Terror”. *London Journal of Botany* 3: 366–400, 454–481.
- Renner, M.A.M. (2005) Additions to the *Radula* floras of New Zealand and Tasmania. *Journal of the Hattori Botanical Laboratory* 97: 39–79.
- Söderström, L., Hagborg, A. & von Konrat, M. (2012) Notes on Early Land Plants Today. *Phytotaxa* 65: 41–42.
<http://dx.doi.org/10.11646/phytotaxa.112.1.3>