# ANOTHER LOCALITY FOR BOTRYCHIUM LUNARIA:

## BILLIES KNOB, NORTH-WEST NELSON

## TONY DRUCE

In Journal 15, 1981 I recorded <u>Botrychium lunaria</u> from Hoary Head, N.W. Nelson, and ended by saying '...... surely <u>Botrychium lunaria</u> is elsewhere on the 'marbleous' mountains of N.W. Nelson - Mt. Arthur, Mt. Owen, etc.' I can now say: yes, it <u>is</u> elsewhere, but <u>not</u> everywhere, and not, as far as we know, on either Mt. Arthur or Mt. Owen.

In January 1982 eight members of the Wellington Botanical Society spent three days on the Arthur Range between Mt. Arthur and the Twins. We searched hundreds of areas of short herbfield of the type in which B. lunaria was found growing on Hoary Head, but without success.

Then in January 1983 the Wellington Botanical Society had its Anniversary weekend trip to Mt. Owen. Again we searched, and again we failed to find B. lunaria. After the main party left ten of us stayed on to visit the neighbouring Turks Cap Range. As luck would have it we had fine weather there so were able to return a day early to Granity Pass, our base for Mt. Owen. What better could we do than to spend the extra day on the marble mountain straight in front of us - Billies Knob.

After a steep climb we came out on a tableland at about 1500m, some 150m below the summit. We were at the top of a long, gentle slope leading north-west to a series of sink-holes. If short herbfields were to be present on the sides of these then we would be in 'B. lunaria territory' once again. Besides B. lunaria we were also looking for Pterostylus cycncephala, another plant of short herbfield at high altitude in N.W. Nelson.

these conditions. We looked at a number of hollows with short herbfield and in each found  $\underline{P}$ .  $\underline{cycnocephala}$  or  $\underline{B}$ .  $\underline{lunaria}$ , sometimes both.

A specimen of <u>B. lunaria</u> has been sent to Botany Division herbarium, Lincoln. The grid reference is NZMS 1 S19 976 008.

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## Aids to Identification - ERICACEAE

#### Ross Elder

Assuming one can identify <u>Gaultheria</u> and <u>Pernettya</u> from other shrubs the following may help to separate the Canterbury species of these two genera.

G. depressa: scrambling shrub:

var. depressa: teeth on marginal serrations of leaf armed with long persistent bristles.

var. novae-zelandiae: teeth not armed with bristles
when mature.

- G. antipoda: erect bushy shrub.
- Fls in racemes:
  - G. crassa: Lvs 10-20x 10mm, thick and coriaceous
- G. ruprestris (incl. G. subcormybosa): Lvs 20-40 x 10mm. Fr a berry (succulent fr): lvs either linear with 10 or less teeth, or margins indistinctly toothed ................................ Pernettya (The calyx may be swollen in Pernettya but the fruit sits on it or is only partially surrounded. The true P. macrostigma should have linear leaves and pink fruit).
  - P. macrostigma: lvs 6-12 x 1-1.5mm
  - P. alpina: lvs  $3-7 \times 2-4 \text{mm}$
  - P. nana: lvs 2-4 x 0.5-1.5mm

Look out for hybrids as they are very common.  $\underline{G}$ .  $\underline{antipoda}$  is known to hybridise with all other species of  $\underline{Gaultheria}$  and the 3 species of  $\underline{Pernettya}$ .