

027318), LP, Sykes, 9-ii-63, EDL; D.A.C., 3-ix-63, CM. Bealey Chasm, Bealey River, (S59/050313), LPA, D.A.C., 1962-1966, UC. McGraths Creek, (S59/053300), LP, D.A.C., 29-vii-62, CM; A. G. McFarlane, 31-i-65, CM. Punch Bowl, (S59/055295), L, D.A.C., 20-i-62, 20-i-63, CM. Bealey River, A, G. V. Hudson, 10-ii-20, BM, DM. Arthur's Pass, A, A. L. Tonnoir, 18-i-20, EDN; anon., ?-xii-22, DM. Snow Creek, (S59/065264), LP, D.A.C., 28-iv-63, CM. Halpin Creek, (S59/070244), L, L.J.D., 13-iv-62, EDL. Mingha River, (S59/114297), LP, D.A.C., 16-xii-63, CM. Andrews Stream, Hallelujah Flats, (S59/280167), LA, D.A.C., 14-xi-64, CM. Linwood Creek, Minchin River, (S59/278446), LPA, D.A.C., 18-iv-65, CM. Sudden Valley, Hawdon River, (S59/195244), L, D.A.C., 19-iv-64, CM. Betwixt Stream, Cass, (S66/201172), L, D.A.C., 18-iv-64, CM. Ribbon Wood Creek, Cass, L, E. Percival, 20-x-33, (Misc.). West Cass River, (S66/193124), L, D.A.C., 13-xi-64, CM. Cass River, (S66/211161), LP, D.A.C., 24-iii-62, CM. Cass, A, A. L. Tonnoir, ?-ii-25, CM. Masons Creek, Flock Hill, Craigieburn Mountain Range, 3,800ft., A, P. M. Johns, 21-i-65, CM. Ryton River, Lake Coleridge, (S74/053898), L, D.A.C., 10-ii-63, CM. Mount Hutt, 2,500ft., PA, G. Tunnicliffe and W. P. Thomas, 29-i-64, CM. Taylor Stream, Ashburton River, LP, D.A.C. and V.M.S., 27-i-64, (123). Moa River, Wilberforce River, L, D.A.C., 19-x-63, (1). Kiwi River, Wilberforce, 2,000ft., LP, D.A.C., 19-x-63, CM. East Kiwi River, L, D.A.C., 19-x-63, (2). Kakapo River, Wilberforce, L, D.A.C., 19-x-63, (4). East Kakapo River, 3,000ft., L, D.A.C., 18-x-63, CM. Lower Kakapo River, 2,000ft., LPA, D.A.C., 18-x-63, CM. Godley Hut, Godley Glacier, L.J.D., 11-xii-58, EDL. Jacks Stream, Mount Cook, L, D. R. Cowley, 24-i-65, UA. Bush Stream, Mount Cook, (S89/773155), L, L.J.D., 14-x-58, EDL; D.A.C. and V.M.S., 11-i-64, (61). Black Birch Stream, Mount Cook, (S89/760300), LP, D.A.C. and V.M.S., 9-i-64, (59 and 59a). Lake Ohau, 1,720ft., L, P. M. Johns, 13-x-63, CM. Parson's Rock Stream, Otematata, LP, D.A.C. and V.M.S., 24-i-64, (108); D.A.C., 29-ii-64, CM. Shingle Creek, Roxburgh, LPA, D.A.C. and V.M.S., 21-i-64, (97). Neck Creek, Lake Hawea, 1,325ft., LPA, D.A.C., 13-i-65, CM. Sawyer's Burn, Lake Hawea, 1,325ft., L, D.A.C., 26-x-64, CM. Camp Stream, Lake Wanaka, 930ft., LP, D.A.C. and V.M.S., 12-i-64, (68). Boundary Creek, Lake Wanaka, 1,000ft., D.A.C. and V.M.S., 12-i-64, (69). Camerons Creek, Makarora River, LP, D.A.C., and V.M.S., 12-i-64, (71); D.A.C., 27-x-64, (197). Brady Creek, Makarora River, L, D.A.C. and V.M.S., 12-i-64, (70). Roaring Swine River, Haast River, 160ft., L, D.A.C. and V.M.S., 14-i-64, (78). Harris Creek, Haast River, L, D.A.C. and V.M.S., 14-i-64, (77). McPherson's Creek, Haast River, LA, D.A.C. and V.M.S., 14-i-64, (79). Gates of Haast, Haast River, LPA, D.A.C. and V.M.S., 14-i-64, (80); D.A.C., 27-x-64, (195). Pyke Creek, Haast River, L, D.A.C. and V.M.S., 14-i-64, (81). Haast River, 1,550ft., LP, D.A.C., 27-x-64, (196). Camp Creek, Haast River, 980ft., D.A.C., 27-x-64, (199). Phoebe Creek, Matukituki River, Lake Wanaka, P, D.A.C., 8-ii-66, CM. Old Homestead Creek, Matukituki River, 1,400ft., LP, D.A.C., 26-x-64, (190); 8-ii-66, CM. Bridal Veil Falls, Matukituki River, 1,400ft., D.A.C., 12-i-65, CM. Raspberry Hut Stream, Matukituki River, PA, D.A.C., 8-ii-66, CM. Lumberbox Creek, Lake Wakatipu, 1,100ft., LP, D.A.C. and V.M.S., 15-i-64, (83); D. R. Cowley, 29-i-65, UA. Nevis River Gorge, Nevis Valley, Lake Wakatipu, LP, D.A.C., 7-ii-66, CM. Piano Flat, Whakaea River, Southland, LP, L.J.D., EDL.

### Remarks

*Neocurupira hudsoni* is the only New Zealand species of blepharocerid which possesses holoptic male adults with the upper eye larger than the lower. In this regard it is similar to the adult male of the Australian *Neocurupira nicholsoni*. The wing venation of these two species is also very similar (Tillyard, 1922b). The wings of *N. hudsoni* adults, in particular those from south of Mount Cook and occasionally from elsewhere, show a reduction in the thickness of vein R2+3 and an increase in the thickness of vein R4+5 (Fig. 5). Specimens have been collected on which the vein R2+3 is considerably reduced and not immediately obvious as is normal. The only known example of brachypterism in male blepharocerids has been found in this species (Fig. 8).

Collections of *N. hudsoni* 4th instar larvae for this work show a range in colour from a uniform colour to a pattern of colour (Plate 1a). Though there is usually a range of colour in any larval population, patterned larvae predominate in populations sampled from regions in Nelson, West Coast and south of Mount Cook. Uniformly coloured larvae predominate in populations from the region between Nelson and Mount Cook.

The commensal chironomid *Dactylocladius commensalis* Tonnoir, 1923b, is microsypatric with *N. hudsoni*.