New Zealand grasshopper locations used for niche modelling. Phoenix Collection is held at Massey University, Palmerston North. Tenure Rev. = Crown Pastoral Lease Tenure Reviews, available from: https://[www.linz.govt.nz/crown-property/crown-pastoral-land/status-and-location-crown-pastoral-](http://www.linz.govt.nz/crown-property/crown-pastoral-land/status-and-location-crown-pastoral-) land. Other source references listed at end.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Location name** | **Lat** | | **Long** | | **Synonym** | **Reference** |
|  |  |  | |  | |  |  |
| ***Alpinacris crassicauda*** | |  | |  | |  |  |
|  | Gouland Downs | -40.92 | | 172.34 | |  | Bigelow 1967 |
|  | Lake Sylvester | -41.11 | | 172.62 | |  | Bigelow 1967 |
|  | Lead Hills, Boulder Lake | -40.89 | | 172.58 | |  | Bigelow 1967 |
|  | Mt Arthur | -41.21 | | 172.70 | |  | Bigelow 1967 |
|  | Mt Glasgow, Seddonville | -41.61 | | 172.06 | |  | Bigelow 1967 |
|  | Mt Goul | -40.94 | | 172.38 | |  | Bigelow 1967 |
|  | Mt Haast | -42.34 | | 172.08 | |  | Bigelow 1967 |
|  | Mt Owen | -41.53 | | 172.54 | |  | Bigelow 1967 |
|  | Mt Peel | -41.13 | | 172.58 | |  | Bigelow 1967 |
|  | Mt Peel Cobb | -41.13 | | 172.58 | |  | Phoenix |
|  | Mt Roberts, St Arnaud | -41.83 | | 172.81 | |  | Phoenix |
|  | Nelson | -41.32 | | 173.27 | |  | Bigelow 1967 |
|  | Paparoa Range | -41.89 | | 171.53 | |  | Bigelow 1967 |
|  | Speargrass Creek | -41.88 | | 172.76 | |  | White 1975 |
|  | St Arnaud Range | -41.84 | | 172.87 | |  | Bigelow 1967 |
|  | Travers Range | -41.89 | | 172.76 | |  | Bigelow 1967 |
|  | Victoria Range | -42.27 | | 172.14 | |  | Bigelow 1967 |
|  |  |  | |  | |  |  |
| ***Alpinacris tumidicauda*** | |  | |  | |  |  |
|  |  |  | |  | |  |  |
|  | Allandale Greenvale | -45.32 | | 168.63 | |  | Tenure Rev. |
|  | Bold Peak, Lake Hawea | -44.85 | | 168.31 | |  | Bigelow 1967 |
|  | Borland Rd Manapouri | -45.59 | | 167.38 | |  | Phoenix |
|  | Cardrona | -44.86 | | 168.95 | |  | Phoenix |
|  | Cardrona | -44.86 | | 168.96 | |  | Phoenix |
|  | Cardrona | -44.88 | | 168.96 | |  | Phoenix |
|  | Cardrona | -44.88 | | 168.96 | |  | Phoenix |
|  | Cardrona | -44.87 | | 168.97 | |  | Phoenix |
|  | Carrick Range | -45.16 | | 169.08 | |  | Bigelow 1967 |
|  | Carrick Range, Nevis Rd | -45.17 | | 169.08 | |  | Phoenix |
|  | Cleughearn | -45.83 | | 167.40 | |  | Bigelow 1967 |
|  | Coronet Peak | -44.93 | | 168.74 | |  | Tenure Rev. |
|  | Courthill, Old Man Range | -45.35 | | 169.22 | |  | Tenure Rev. |
|  | Gem Lake | -45.57 | | 169.10 | |  | Dickinson et al. 1998 |
|  | Gorge Creek, Old Man Range | -45.39 | | 169.20 | |  | Tenure Rev. |
|  | Halfway Bay Station | -45.25 | | 168.65 | |  | Tenure Rev. |
|  | Happy Valley | -45.20 | | 169.07 | |  | Tenure Rev. |
|  | Hector Mts | -45.41 | | 168.77 | |  | Bigelow 1967 |
|  | Jane Peak | -45.33 | | 168.34 | |  | Mark et al. 1989 |
|  | Mataura Valley Snowbanks | -45.33 | | 168.45 | |  | Tenure Rev. |
|  | Mid Dome | -45.58 | | 168.56 | |  | Bigelow 1967, Dickinson et al. 1998 |
|  | Minaret Station | -44.42 | | 169.09 | |  | Tenure Rev. |
|  | Mt Alta | -44.52 | | 168.95 | |  | White 1975 |
|  | Mt Aurum | -44.77 | | 168.63 | |  | Bigelow 1967 |
|  | Mt Benger | -45.59 | | 169.25 | |  | Dickinson et al. 1998 |
|  | Mt Creighton, Luna Basin | -44.92 | | 168.48 | |  | Tenure Rev. |
|  | Mt Creighton, Luna Creek Flats | -44.94 | | 168.49 | |  | Tenure Rev. |
|  | Mt Creighton, Minor Peak | -44.93 | | 168.46 | |  | Tenure Rev. |
|  | Mt Creighton, Wire Creek | -44.90 | | 168.47 | |  | Tenure Rev. |
|  | Mt Eostre, Mt Aspiring Station | -44.44 | | 168.86 | |  | Tenure Rev. |
|  | Mt Luxmore | -45.39 | | 167.61 | |  | Bigelow 1967 |
|  | Mt Pisa | -44.88 | | 169.20 | |  | Bigelow 1967 |
|  | Mt Tennyson | -45.45 | | 168.83 | |  | Dickinson et al. 1998 |
|  | Nokomai Range | -45.47 | | 168.75 | |  | Dickinson et al. 1998 |
|  | Obelisk, Old Man Range | -45.37 | | 169.21 | |  | Phoenix |
|  | Obelisk, Old Man Range | -45.28 | | 169.21 | |  | Phoenix |
|  | Obelisk, Old Man Range | -45.32 | | 169.21 | |  | Phoenix |
|  | Obelisk, Old Man Range | -45.24 | | 169.23 | |  | Phoenix |
|  | Old Man Range | -45.38 | | 169.18 | |  | Bigelow 1967 |
|  | Slate Basin | -45.31 | | 168.37 | |  | Mark et al. 1989 |
|  | Snow Farm | -44.88 | | 169.09 | |  | Phoenix |
|  | Southern Old Man Range | -45.43 | | 168.20 | |  | Dickinson et al. 1998 |
|  | Symmetry Peaks | -45.29 | | 168.58 | |  | Mark et al. 1989 |
|  | Takahe Valley | -45.28 | | 167.66 | |  | Bigelow 1967 |
|  | The Larches | -44.81 | | 169.15 | |  | Tenure Rev. |
|  | The Larches, Gold Diggings | -44.78 | | 169.15 | |  | Tenure Rev. |
|  | The Larches, Luggate Creek | -44.80 | | 169.13 | |  | Tenure Rev. |
|  | Walter Peak White Burn | -45.22 | | 168.39 | |  | Tenure Rev. |
|  | West Wanaka | -44.56 | | 169.00 | |  | Tenure Rev. |
| ***Brachaspis collinus*** | |  | |  | |  |  |
|  | Arthurs Pass National Park | -42.93 | | 171.60 | |  | Bigelow 1967 |
|  | Boulder Lake | -40.90 | | 172.57 | |  | Bigelow 1967 |
|  | Cupola Basin A | -41.97 | | 172.73 | |  | White 1975 |
|  | Cupola Basin B | -41.97 | | 172.73 | |  | White 1975 |
|  | Golden Downs | -41.61 | | 172.95 | |  | Bigelow 1967 |
|  | Lake Tennyson | -42.21 | | 172.74 | |  | Bigelow 1967 |
|  | Lewis Pass | -42.38 | | 172.40 | |  | Bigelow 1967 |
|  | Lewis Pass | -42.38 | | 172.38 | |  | Trewick 2001 |
|  | Mt Arthur | -41.21 | | 172.70 | |  | Bigelow 1967 |
|  | Mt Cupola, Dry Face | -42.01 | | 172.77 | |  | Batcheler 1967 |
|  | Mt Cupola, Hut Face | -41.99 | | 172.73 | |  | Batcheler 1967 |
|  | Mt Lyford | -42.45 | | 173.15 | |  | Trewick 2001 |
|  | Mt Owen | -41.53 | | 172.54 | |  | Bigelow 1967 |
|  | Mt Peel | -41.13 | | 172.59 | |  | Bigelow 1967 |
|  | Mt Peel Cobb | -41.15 | | 172.60 | |  | Phoenix |
|  | Mt Percival | -42.47 | | 172.93 | |  | Bigelow 1967 |
|  | Mt Robert, St Arnaud | -41.84 | | 172.80 | |  | Trewick 2001 |
|  | Mt Robert, St Arnaud | -41.85 | | 172.79 | |  | Phoenix |
|  | Mt St Patrick | -42.44 | | 172.73 | |  | Bigelow 1967 |
|  | Rainbow Skifield | -41.88 | | 172.86 | |  | Phoenix |
|  | Rainbow Skifield | -41.87 | | 172.86 | |  | Phoenix |
|  | Rainbow Skifield | -41.87 | | 172.86 | |  | Phoenix |
|  | Richmond Range | -41.47 | | 173.41 | |  | Bigelow 1967 |
|  | Six Mile Creek | -41.87 | | 172.85 | |  | White 1975 |
|  | Speargrass Creek | -41.88 | | 172.76 | |  | White 1975 |
|  | St Arnaud Range | -41.84 | | 172.87 | |  | Bigelow 1967 |
|  | St Arnaud Range | -41.83 | | 172.88 | |  | White 1975 |
|  | Temple Basin | -42.91 | | 171.58 | |  | Mason 1971 |
|  | Travers Range | -41.89 | | 172.76 | |  | Bigelow 1967 |
|  | Turk Ridge | -42.13 | | 172.75 | |  | White 1975 |
|  |  |  | |  | |  |  |
| ***Brachaspis nivalis* (FP)** | |  | |  | |  |  |
|  | Ahuriri River | -44.24 | | 169.60 | | Brachaspis robustus | Bigelow 1967 |
|  | Awakino | -44.74 | | 170.42 | | Brachaspis robustus | Phoenix |
|  | Balmoral | -44.03 | | 170.37 | | Brachaspis robustus | Tenure Rev. |
|  | Black Forest Innes Burn | -44.47 | | 170.40 | |  | Tenure Rev. |
|  | Curraghmore, Ballon Stream | -44.34 | | 170.54 | | Brachaspis "hunter" | Tenure Rev. |
|  | Curraghmore, Stony River | -44.39 | | 170.54 | | Brachaspis "hunter" | Tenure Rev. |
|  | Erewhon, Cloudy Stream | -43.44 | | 170.76 | |  | Tenure Rev. |
|  | Ewe Range | -44.60 | | 169.92 | |  | Patrick 1994 |
|  | Eweburn | -44.96 | | 170.12 | |  | Tenure Rev. |
|  | Fork Stream, Balmoral | -43.97 | | 170.40 | | Brachaspis robustus | White 1994; Tenure Rev. |
|  | Fox Peak | -43.85 | | 170.81 | |  | Bigelow 1967 |
|  | Fox Peak | -43.85 | | 170.80 | |  | Phoenix |
|  | Fox Peak | -43.85 | | 170.81 | |  | Phoenix |
|  | Glenmore | -43.74 | | 170.35 | | Brachaspis "hunter" | Tenure Rev. |
|  | Glenrock Holbrook Rollesby Station | -44.04 | | 170.58 | |  | Tenure Rev. |
|  | Glenrock Station, Sawdon Flats | -44.10 | | 170.54 | | Brachaspis robustus | Tenure Rev. |
|  | Godley Peak, Hall Range | -43.70 | | 170.47 | | Brachaspis "hunter" | Tenure Rev. |
|  | Grays Hills | -44.27 | | 170.33 | | Brachaspis robustus | White 1994 |
|  | Hawkdun Range | -44.83 | | 170.00 | |  | Patrick 1994 |
|  | Hopkins Valley, Lake Ohau | -44.17 | | 169.88 | |  | Bigelow 1967 |
|  | Hunter Hills | -44.64 | | 170.91 | |  | Trewick & Morris 2008 |
|  | Ida Range | -44.94 | | 170.18 | |  | Patrick 1994 |
|  | Invercroy | -44.48 | | 170.57 | | Brachaspis "hunter" | Tenure Rev. |
|  | Kakanui Mountains | -45.06 | | 170.38 | |  | Patrick 1991 |
|  | Kirkliston, Basin Stream Headwaters | -44.48 | | 170.42 | |  | Tenure Rev. |
|  | Kirkliston, Hay Stream Headwaters | -44.47 | | 170.53 | |  | Tenure Rev. |
|  | Kurow | -44.73 | | 170.47 | | Brachaspis robustus | Phoenix |
|  | Lake Tekapo | -44.02 | | 170.58 | |  | Trewick 2001 |
|  | Mackenzie River | -44.18 | | 170.52 | | Brachaspis robustus | White 1994 |
|  | Maitland Stream | -44.23 | | 169.72 | |  | White 1975 |
|  | Malte Brun Range | -43.61 | | 170.24 | |  | White 1975 |
|  | Maryburn, Tekapo Terraces | -44.17 | | 170.37 | | Brachaspis robustus | Tenure Rev. |
|  | Mesopotamia Mt Toby | -43.68 | | 170.72 | |  | Tenure Rev. |
|  | Mesopotamia, Bush Stream | -43.63 | | 170.85 | | Brachaspis "lowland" | Tenure Rev. |
|  | Mt Buster | -44.93 | | 170.22 | |  | Patrick 1994 |
|  | Mt Cook | -43.71 | | 170.11 | |  | Phoenix |
|  | Mt Cook | -43.69 | | 170.11 | |  | Bigelow 1967 |
|  | Mt Dobson | -43.97 | | 170.67 | |  | Trewick 2001 |
|  | Mt Hay, Two Thumbs Range | -43.96 | | 170.61 | | Brachaspis "hunter" | Tenure Rev. |
|  | Mt Ida Syndicate | -44.84 | | 170.23 | |  | Tenure Rev. |
|  | Mt Kirkliston | -44.55 | | 170.52 | |  | Bigelow 1967 |
|  | Mt Melina Ridge | -44.45 | | 169.55 | |  | Bigelow 1967 |
|  | Mt Nimrod | -44.44 | | 170.80 | | Brachaspis "hunter" | Phoenix |
|  | Mt St Bathans | -44.76 | | 169.80 | |  | Trewick 2001 |
|  | Mt Sutton | -44.23 | | 169.78 | |  | Trewick 2001 |
|  | Mt Wakefield | -43.70 | | 170.13 | |  | Bigelow 1967 |
|  | Ohau River | -44.32 | | 170.18 | | Brachaspis robustus | Trewick 2001 |
|  | Ohau River | -44.34 | | 170.19 | | Brachaspis robustus | White 1994 |
|  | Pisgah Downs | -44.99 | | 170.53 | |  | Tenure Rev. |
|  | Pukaki River | -44.28 | | 170.19 | | Brachaspis robustus | White 1994 |
|  | Rangitata Headwaters | -43.51 | | 170.82 | |  | Bigelow 1967 |
|  | Richmond, Richmond Range | -43.85 | | 170.64 | |  | Tenure Rev. |
|  | Rocky Top | -44.78 | | 170.60 | |  | Trewick 2001 |
|  | Sawdon Stream | -44.13 | | 170.52 | | Brachaspis robustus | White 1994 |
|  | Sawdon Stream | -44.12 | | 170.52 | | Brachaspis robustus | White 1994 |
|  | Sawdon Stream | -44.12 | | 170.52 | | Brachaspis robustus | White 1994 |
|  | Snow River | -44.22 | | 170.50 | | Brachaspis robustus | White 1994 |
|  | Tekapo Canal | -44.03 | | 170.45 | | Brachaspis robustus | White 1994 |
|  | Tekapo Delta | -44.34 | | 170.20 | | Brachaspis robustus | Trewick 2001 |
|  | Tekapo Powerhouse | -44.01 | | 170.46 | | Brachaspis robustus | White 1994 |
|  | Tekapo River | -44.17 | | 170.40 | | Brachaspis robustus | White 1994 |
|  | The Grampians | -44.27 | | 170.51 | | Brachaspis "hunter" | Tenure Rev. |
|  | The Grampians, Black Rocks | -44.33 | | 170.54 | | Brachaspis "hunter" | Tenure Rev. |
|  | The Grampians, Mackenzie River | -44.18 | | 170.54 | | Brachaspis robustus | Tenure Rev. |
|  | The Grampians, Snow River | -44.22 | | 170.50 | | Brachaspis robustus | Tenure Rev. |
|  | The Wolds, Nth Tekapo Canal | -44.07 | | 170.40 | | Brachaspis robustus | Tenure Rev. |
|  | The Wolds, Tekapo River Terraces | -44.08 | | 170.43 | | Brachaspis robustus | Tenure Rev. |
|  | Twin Peaks Wether Range | -44.58 | | 169.76 | |  | Tenure Rev. |
|  |  |  | |  | |  |  |
| ***Brachaspis nivalis* (SA)** | |  | |  | |  |  |
|  | Arrowsmith | -43.37 | | 171.01 | |  | Trewick 2001 |
|  | Arthurs Pass | -42.91 | | 171.58 | |  | Bigelow 1967 |
|  | Blackbirch Marlborough | -41.90 | | 173.68 | |  | Bigelow 1967 |
|  | Cameron Valley, Mt Arrowsmith | -43.34 | | 170.97 | |  | Bigelow 1967 |
|  | Camp Stream Saddle, Craigieburn | -43.13 | | 171.70 | |  | White 1974; 1991 |
|  | Cass | -43.03 | | 171.78 | |  | Bigelow 1967 |
|  | Castle Hill | -43.23 | | 171.72 | | Brachaspis "lowland" | Tenure Rev. |
|  | Clarence Valley, Lake |  | |  | |  |  |
|  | Tennyson | -42.24 | | 172.77 | |  | Bigelow 1967 |
|  | Cora Lynn, Pylon Gully | -43.04 | | 171.71 | | Brachaspis "lowland" | Tenure Rev. |
|  | Craigieburn | -43.12 | | 171.68 | |  | Mason 1971 |
|  | Craigieburn | -43.12 | | 171.70 | |  | Trewick 2001 |
|  | Craigieburn Range | -43.19 | | 171.63 | |  | Bigelow 1967 |
|  | Craigieburn, Broken River Headwaters | -43.13 | | 171.67 | |  | Watson 1970 |
|  | Dee Stream | -42.00 | | 173.70 | |  | Bigelow 1967 |
|  | Dee Stream, Bluff Station | -42.00 | | 173.76 | |  | Trewick & Morris 2008 |
|  | Double Hill | -43.32 | | 171.29 | |  | Tenure Rev. |
|  | Erewhon Park, Mt Potts Range | -43.50 | | 170.90 | | Brachaspis "hunter" | Tenure Rev. |
|  | Erewhon Park, Potts River | -43.58 | | 170.94 | | Brachaspis "lowland" | Tenure Rev. |
|  | Erewhon, Lizard Valley | -43.48 | | 170.89 | |  | Tenure Rev. |
|  | Foggy Peak | -43.28 | | 171.75 | |  | Trewick 2001 |
|  | Glenfalloch, Charlie Stream | -43.38 | | 171.17 | | Brachaspis "lowland" | Tenure Rev. Glenfalloch, Lake Stream |
|  | Glenfalloch, Neil Stream | -43.39 | | 171.18 | | Brachaspis "lowland" | Tenure Rev. |
|  | Glenfalloch, Palmer Range | -43.35 | | 171.24 | |  | Tenure Rev. |
|  | Glenthorne, Birdwood Range | -43.14 | | 171.44 | |  | Tenure Rev. |
|  | Glenthorne, Boundary Stream | -43.16 | | 171.42 | | Brachaspis "lowland" | Tenure Rev. |
|  | Glenthorne, Fanghill Stream | -43.13 | | 171.37 | | Brachaspis "lowland" | Tenure Rev. |
|  | Hakatere, Craddock Stream | -43.57 | | 171.01 | | Brachaspis "lowland" | Tenure Rev. |
|  | Hodder Valley, Tapuanuka | -41.98 | | 173.63 | |  | Bigelow 1967 |
|  | Island Hills Mt Skedaddle | -42.68 | | 172.51 | |  | Tenure Rev. |
|  | Island Hills Mt Skedaddle | -42.68 | | 172.51 | |  | Tenure Rev. |
|  | Island Hills Mt Skedaddle | -42.67 | | 172.51 | |  | Tenure Rev. |
|  | Jagged Stream, Rakaia Valley | -43.33 | | 171.04 | |  | Bigelow 1967 |
|  | Kowhai River | -42.32 | | 173.57 | |  | Bigelow 1967 |
|  | Lochaber Mt Peel | -43.85 | | 171.15 | | Brachaspis "hunter" | Tenure Rev. |
|  | Manuka Point | -43.26 | | 171.19 | |  | Tenure Rev. |
|  | Manuka Point, Rakaia Valley | -43.28 | | 171.18 | | Brachaspis "lowland" | Tenure Rev. |
|  | Mt Arrowsmtih | -43.49 | | 171.11 | |  | Tenure Rev. |
|  | Mt Cupola | -41.99 | | 172.72 | |  | Batcheler 1967 |
|  | Mt Hutt | -43.47 | | 171.53 | |  | Bigelow 1967 |
|  | Mt Hutt | -43.50 | | 171.54 | |  | Phoenix |
|  | Mt Lyford | -42.45 | | 173.15 | |  | Trewick 2001 |
|  | Mt Olympus | -43.19 | | 171.60 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.61 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.61 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.61 | |  | Phoenix |
|  | Mt Patriarch, Richmond Range | -41.61 | | 173.23 | |  | Phoenix |
|  | Mt St Patrick | -42.44 | | 172.74 | |  | Bigelow 1967 |
|  | Mt Storm, Puteteraki Range | -43.14 | | 172.10 | |  | Bigelow 1967 |
|  | Mt Terako | -42.45 | | 173.15 | |  | Bigelow 1967 |
|  | Porter Heights | -43.27 | | 171.63 | |  | Mason 1971 |
|  | Porter River | -43.25 | | 171.73 | | Brachaspis "lowland" | Phoenix |
|  | Porter River | -43.29 | | 171.66 | |  | Trewick & Morris 2008 |
|  | Rainbow Skifield | -41.87 | | 172.86 | |  | Phoenix |
|  | Red Spur, Mead Stream | -41.96 | | 173.76 | |  | Trewick & Morris 2008 |
|  | Rolleston Range | -43.19 | | 171.25 | |  | Bigelow 1967 |
|  | Seaward Kaikouras | -42.20 | | 173.72 | |  | Bigelow 1967 |
|  | Shale Peak, Mt Tekoa | -42.61 | | 172.64 | |  | Bigelow 1967 |
|  | Speargrass Creek, Travers Range | -41.87 | | 172.76 | |  | Bigelow 1967 |
|  | Torlesse Range Canterbury | -43.28 | | 171.75 | |  | Bigelow 1967 |
|  | Turk Ridge | -42.13 | | 172.75 | |  | White 1975 |
|  | Winterslow | -43.55 | | 171.34 | |  | Tenure Rev. |
|  |  |  | |  | |  |  |
| ***Paprides dugdali*** | |  | |  | |  |  |
|  | Awakino | -44.78 | | 170.36 | |  | Tenure Rev. |
|  | Blue Mountains, nr Clutha | -45.90 | | 169.37 | |  | Bigelow 1967 |
|  | Blue Mountains, nr Clutha | -45.86 | | 169.43 | |  | Phoenix |
|  | Castle Dent Run Block | -45.77 | | 169.65 | |  | Tenure Rev. |
|  | Ida Range | -44.96 | | 170.13 | |  | Patrick 1994 |
|  | Lake Mahinerangi | -45.82 | | 169.93 | |  | Bigelow 1967 |
|  | Lammerlaw Top Lake Onslow | -45.66 | | 169.64 | |  | Phoenix |
|  | Lammermoor Range | -45.67 | | 169.77 | |  | Bigelow 1967 |
|  | Little Mt Ida | -44.96 | | 170.06 | |  | Tenure Rev. |
|  | Lochaber Mt peel | -43.85 | | 171.15 | |  | Tenure Rev. |
|  | Loganburn Reservoir | -45.54 | | 169.94 | |  | Barratt & Patrick 1987 |
|  | Manuka Point | -43.26 | | 171.19 | |  | Tenure Rev. |
|  | Maungatua, Dunedin | -45.89 | | 170.10 | |  | Phoenix |
|  | Mt Anglem, Stewart Is. | -46.74 | | 167.92 | |  | Bigelow 1967 |
|  | Mt Benger | -45.59 | | 169.25 | |  | Dickinson et al. 1998 |
|  | Mt Buster | -44.93 | | 170.24 | |  | Patrick 1994 |
|  | Mt Maungatua | -45.91 | | 170.09 | |  | Bigelow 1967 |
|  | Mt Prospect | -45.42 | | 167.94 | |  | Tenure Rev. |
|  | Mt Teviot | -45.59 | | 169.54 | |  | Phoenix |
|  | Rock Pillar Range | -45.57 | | 169.96 | |  | Phoenix |
|  | Silver Peaks | -45.78 | | 170.34 | |  | Anonymous 1986 |
|  | Slate Basin | -45.33 | | 168.38 | |  | Mark et al. 1989 |
|  | Slate Range | -45.53 | | 168.63 | |  | Dickinson et al. 1998 |
|  | South Rough Ridge | -45.40 | | 169.74 | |  | Bigelow 1967 |
|  | South Rough Ridge | -45.41 | | 169.74 | |  | Patrick 1989 |
|  | Southern Old Man Range | -45.44 | | 169.25 | |  | Dickinson et al. 1998 |
|  | Waikaia Bush | -45.53 | | 169.00 | |  | Dickinson et al. 1998 |
|  | Waipora Falls | -45.90 | | 169.98 | |  | Bigelow 1967 |
|  | Way Spur | -45.30 | | 168.62 | |  | Mark et al. 1989 |
|  |  |  | |  | |  |  |
| ***Paprides nitidus*** | |  | |  | |  |  |
|  | Arthurs Pass | -42.94 | | 171.57 | | Bigelow 1967 | Bigelow 1967 |
|  | Arthurs Pass | -42.93 | | 171.57 | | Peterson 1968 | Peterson 1968 |
|  | Ashburton Gorge | -43.63 | | 171.22 | | Bigelow 1967 | Bigelow 1967 |
|  | Blackbirch Marlborough | -41.74 | | 173.81 | | Bigelow 1967 | Bigelow 1967 |
|  | Cameron Glacier | -43.36 | | 171.01 | |  | Peterson 1968 |
|  | Cameron Valley, Wild Mans Range | -43.36 | | 171.01 | |  | Bigelow 1967 |
|  | Camp Stream Saddle, Craigieburn | -43.13 | | 171.70 | |  | White 1974; 1991 |
|  | Cass | -43.03 | | 171.78 | |  | Bigelow 1967 |
|  | Cora Lynn, Mt Horrible | -43.03 | | 171.71 | |  | Tenure Rev. |
|  | Craigieburn | -43.12 | | 171.70 | |  | Mason 1971 |
|  | Craigieburn Range | -43.28 | | 171.68 | |  | Bigelow 1967 |
|  | Craigieburn, Broken River Headwaters | -43.12 | | 171.69 | |  | Watson 1970 |
|  | Double Hill | -43.32 | | 171.29 | |  | Tenure Rev. |
|  | Dun Mountain | -41.35 | | 173.37 | |  | Bigelow 1967 |
|  | Erewhon Park, Grasslands | -43.59 | | 170.96 | |  | Tenure Rev. |
|  | Erewhon Park, Mt Potts Range | -43.50 | | 170.90 | |  | Tenure Rev. |
|  | Erewhon, Cloudy Stream | -43.44 | | 170.76 | |  | Tenure Rev. |
|  | Foggy Peak, Christchurch | -43.28 | | 171.75 | |  | Phoenix |
|  | Fox Peak | -43.86 | | 170.81 | |  | Peterson 1968 |
|  | Fox Peak | -43.86 | | 170.81 | |  | Phoenix |
|  | Fox Peak | -43.85 | | 170.81 | |  | Phoenix |
|  | Fox Peak | -43.86 | | 170.82 | |  | Phoenix |
|  | Garnet Peak | -42.55 | | 172.41 | |  | Peterson 1968 |
|  | Glenfalloch, Lagoon Peak | -43.38 | | 171.24 | |  | Tenure Rev. |
|  | Glenfalloch, Palmer Range | -43.35 | | 171.24 | |  | Tenure Rev. |
|  | Glenthorne, Birdwood Range | -43.14 | | 171.44 | |  | Tenure Rev. |
|  | Hamilton Peak | -43.12 | | 171.70 | |  | Peterson 1968 |
|  | Hanmer Springs | -42.49 | | 172.84 | |  | Bigelow 1967 |
|  | Island Hills, Mt Skedaddle | -42.67 | | 172.51 | |  | Tenure Rev. |
|  | Kaikouras | -42.30 | | 173.53 | |  | Bigelow 1967 |
|  | Lake Pukaki | -44.16 | | 170.22 | |  | Phoenix |
|  | Lake Tennyson | -42.20 | | 172.74 | |  | Peterson 1968 |
|  | Lead Hills | -40.90 | | 172.57 | |  | Peterson 1968 |
|  | Lead Hills, Boulder Lake | -40.89 | | 172.58 | |  | Bigelow 1967 |
|  | Lewis Pass | -42.38 | | 172.38 | |  | Bigelow 1967 |
|  | Lewis Pass | -42.38 | | 172.38 | |  | Peterson 1968 |
|  | Lewis Pass | -42.38 | | 172.39 | |  | Phoenix |
|  | Lindis Valley | -44.75 | | 169.51 | |  | Phoenix |
|  | Manuka Point | -43.26 | | 171.19 | |  | Tenure Rev. |
|  | Mesopotamia | -43.68 | | 170.72 | |  | Tenure Rev. |
|  | Mt Arrowsmith | -43.49 | | 171.11 | |  | Tenure Rev. |
|  | Mt Arthur | -41.20 | | 172.72 | |  | Bigelow 1967 |
|  | Mt Chrome | -41.67 | | 173.06 | |  | Peterson 1968 |
|  | Mt Cupola, Dry Face | -42.01 | | 172.77 | |  | Batcheler 1967 |
|  | Mt Cupola, Hut Face | -42.00 | | 172.74 | |  | Batcheler 1967 |
|  | Mt Fitzwilliam | -43.17 | | 171.53 | |  | Phoenix |
|  | Mt Fitzwilliam | -43.17 | | 171.52 | |  | Phoenix |
|  | Mt Fyffe | -42.32 | | 173.59 | |  | Peterson 1968 |
|  | Mt Fyffe | -42.32 | | 173.59 | |  | Phoenix |
|  | Mt Hutt | -43.53 | | 171.54 | |  | Bigelow 1967 |
|  | Mt Hutt | -43.53 | | 171.54 | |  | Peterson 1968 |
|  | Mt Hutt | -43.50 | | 171.54 | |  | Phoenix |
|  | Mt Hutt | -43.52 | | 171.55 | |  | Phoenix |
|  | Mt Hutt | -42.12 | | 172.78 | |  | White 1975 |
|  | Mt Ida, Craigieburn | -43.23 | | 171.54 | |  | Phoenix |
|  | Mt Lyford | -42.45 | | 173.15 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.60 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.61 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.61 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.60 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.60 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.60 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.61 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.61 | |  | Phoenix |
|  | Mt Patriarch | -41.61 | | 173.23 | |  | Phoenix |
|  | Mt Peel | -41.13 | | 172.58 | |  | Bigelow 1967 |
|  | Mt Peel, Canterbury | -43.84 | | 171.17 | |  | Bigelow 1967 |
|  | Mt Peel, Cobb | -41.14 | | 172.59 | |  | Phoenix |
|  | Mt Richmond | -41.47 | | 173.39 | |  | Bigelow 1967 |
|  | Mt Tekoa | -42.67 | | 172.62 | |  | Bigelow 1967 |
|  | Mt Tekoa | -42.67 | | 172.63 | |  | Peterson 1968 |
|  | Mt Travers | -42.02 | | 172.75 | |  | Peterson 1968 |
|  | Oxford | -43.24 | | 172.08 | |  | Bigelow 1967 |
|  | Porter Heights | -43.27 | | 171.63 | |  | Mason 1971 |
|  | Porters Pass | -43.29 | | 171.75 | |  | Peterson 1968 |
|  | Pukaki Dam | -44.19 | | 170.15 | |  | Phoenix |
|  | Puketeraki Range | -43.09 | | 172.08 | |  | Bigelow 1967 |
|  | Rainbow Skifield | -41.88 | | 172.86 | |  | Phoenix |
|  | Rainbow Skifield | -41.87 | | 172.86 | |  | Phoenix |
|  | Rainbow Skifield | -41.87 | | 172.86 | |  | Phoenix |
|  | Rangitata Headwaters | -43.51 | | 170.82 | |  | Bigelow 1967 |
|  | Red Hill Nelson | -41.13 | | 173.56 | |  | Bigelow 1967 |
|  | Richmond, Camp Stream Coal River | -43.81 | | 170.65 | |  | Tenure Rev. |
|  | Rolleston Range | -43.17 | | 171.21 | |  | Bigelow 1967 |
|  | St Arnaud Range | -41.83 | | 172.89 | |  | White 1975 |
|  | Sugar Loaf Cass | -43.04 | | 171.78 | |  | Phoenix |
|  | Temple Basin | -42.91 | | 171.58 | |  | Mason 1971 |
|  | Torlesse Range | -43.28 | | 171.82 | |  | Bigelow 1967 |
|  | Travers, St Arnaud Ranges | -41.97 | | 172.73 | |  | Bigelow 1967 |
|  | Turk Ridege | -42.13 | | 172.75 | |  | White 1975 |
|  | Two Thumb Range | -43.99 | | 170.64 | |  | Bigelow 1967 |
|  | Winterslow | -43.55 | | 171.34 | |  | Tenure Rev. |
|  | Woodbank | -42.55 | | 172.66 | |  | Tenure Rev. |
|  |  |  | |  | |  |  |
| ***Sigaus australis*** | |  | |  | |  |  |
|  | Alexandra Airport | -45.21 | | 169.36 | |  | Phoenix |
|  | Alexandra Tailings | -45.25 | | 169.37 | | Sigaus sp. A. | Morris 2002 |
|  | Awakino | -44.83 | | 170.37 | |  | Tenure Rev. |
|  | Awakino Ski Field | -44.78 | | 170.31 | |  | Phoenix |
|  | Bannockburn Nevis Rd | -45.16 | | 169.10 | |  | Phoenix |
|  | Beaumont | -45.70 | | 169.69 | |  | Tenure Rev. |
|  | Ben Ledi | -44.99 | | 170.45 | |  | Tenure Rev. |
|  | Ben Ledi | -45.05 | | 170.39 | |  | Tenure Rev. |
|  | Ben Ledi | -45.00 | | 170.44 | |  | Tenure Rev. |
|  | Ben Nevis | -45.18 | | 168.90 | |  | Tenure Rev. |
|  | Ben Ohau, Dobson Valley | -43.99 | | 169.99 | |  | Bigelow 1967 |
|  | Black Forest, Lake Benmore | -44.42 | | 170.26 | |  | Tenure Rev. |
|  | Black Forest, Stony River | -44.40 | | 170.50 | |  | Tenure Rev. |
|  | Branch Creek Mt Cardrona | -44.86 | | 168.96 | | Sigaus obelisci | Tenure Rev. |
|  | Caithness | -45.25 | | 170.52 | |  | Tenure Rev. |
|  | Cambrian Hills | -44.86 | | 169.70 | |  | Tenure Rev. |
|  | Cameron Valley, Mt Arrowsmith | -43.42 | | 170.92 | |  | Bigelow 1967 |
|  | Camp Stream Saddle, Craigieburn | -43.13 | | 171.70 | |  | White 1974; 1991 |
|  | Cardrona | -44.86 | | 168.95 | |  | Phoenix |
|  | Cardrona | -44.86 | | 168.95 | |  | Phoenix |
|  | Cardrona | -44.86 | | 168.95 | |  | Phoenix |
|  | Cardrona | -44.86 | | 168.95 | |  | Phoenix |
|  | Cardrona | -44.86 | | 168.95 | |  | Phoenix |
|  | Cardrona | -44.86 | | 168.96 | |  | Phoenix |
|  | Cardrona | -44.88 | | 168.95 | |  | Phoenix |
|  | Cardrona | -44.88 | | 168.96 | |  | Phoenix |
|  | Cardrona | -44.88 | | 168.96 | |  | Phoenix |
|  | Cardrona | -44.87 | | 168.97 | |  | Phoenix |
|  | Cardrona | -44.87 | | 168.97 | |  | Phoenix |
|  | Castle Dent, Run Block | -45.77 | | 169.65 | |  | Tenure Rev. |
|  | Chetwynd, Albury Range | -44.16 | | 170.73 | |  | Tenure Rev. |
|  | Chetwynd, Upper Tramway Stream | -44.15 | | 170.72 | |  | Tenure Rev. |
|  | Cloudy Peak | -44.91 | | 169.54 | |  | Tenure Rev. |
|  | Cloudy Peak, Dry Creek | -44.92 | | 169.53 | |  | Tenure Rev. |
|  | Cluden Station, Cluden Pass | -44.80 | | 169.71 | |  | Tenure Rev. |
|  | Cluden Station, Dunstan Mountains | -44.86 | | 169.60 | |  | Tenure Rev. |
|  | Conical Hill, Routeburn Track | -44.72 | | 168.17 | |  | Phoenix |
|  | Conroys Dam | -45.28 | | 169.32 | |  | Trewick 2008 |
|  | Courthill | -45.37 | | 169.25 | |  | Tenure Rev. |
|  | Courthill Old Man Range | -45.35 | | 169.22 | | Sigaus obelisci | Tenure Rev. |
|  | Craigieburn | -43.14 | | 171.70 | |  | Mason 1971 |
|  | Craigieburn Range | -43.20 | | 171.63 | |  | Bigelow 1967 |
|  | Craigieburn Range | -43.16 | | 171.67 | |  | Trewick 2008 |
|  | Craigieburn, Broken River Headwaters | -43.13 | | 171.67 | |  | Watson 1970 |
|  | Crawford Hills | -45.22 | | 169.57 | |  | Trewick 2008 |
|  | Dana Peaks | -45.22 | | 167.63 | | Sigaus takahe | Morris 2003 |
|  | Dana Peaks | -45.23 | | 167.61 | | Sigaus takahe | Morris 2003 |
|  | Dana Peaks | -45.24 | | 167.60 | | Sigaus takahe | Morris 2003 |
|  | Dana Peaks | -45.22 | | 167.61 | | Sigaus takahe | Morris 2003 |
|  | Dansey District | -45.04 | | 170.48 | |  | Patrick 1991 |
|  | Danseys Pass | -44.95 | | 170.38 | |  | Bigelow 1967 |
|  | Danseys Pass | -44.95 | | 170.37 | |  | Phoenix |
|  | Danseys Pass | -44.95 | | 170.37 | |  | Trewick 2008 |
|  | Deep Creek, Camp Creek | -44.71 | | 169.41 | |  | Tenure Rev. |
|  | Domett Downs | -44.87 | | 170.40 | |  | Tenure Rev. |
|  | Double Hill | -43.32 | | 171.29 | |  | Tenure Rev. |
|  | Duffers Saddle, Nevis Rd | -45.17 | | 169.18 | |  | Phoenix |
|  | Dunstan Range | -45.09 | | 169.34 | |  | Trewick 2008 |
|  | Earl Mountains | -44.95 | | 167.99 | | Sigaus homerensis | Trewick 2008 |
|  | Earncleugh | -45.24 | | 169.35 | | Sigaus sp. A. | Trewick 2008 |
|  | Earnscleugh Tailings | -45.24 | | 169.36 | | Sigaus sp. A. | Morris 2002 |
|  | East Dome | -45.61 | | 168.69 | | Sigaus obelisci | Dickinson et al. 1998 |
|  | Erewhon Park, Mt Potts Range | -43.50 | | 170.90 | |  | Tenure Rev. |
|  | Erewhon, Cloudy Stream | -43.50 | | 170.77 | |  | Tenure Rev. |
|  | Erewhon, Lizard Gully | -43.48 | | 170.89 | |  | Tenure Rev. |
|  | Erewhon, The Point | -43.52 | | 170.83 | |  | Tenure Rev. |
|  | Ewe Range | -44.60 | | 169.92 | |  | Patrick 1994 |
|  | Flagstaff Hill | -45.83 | | 170.46 | |  | Trewick 2008 |
|  | Foggy Peak | -43.28 | | 171.75 | |  | Trewick 2008 |
|  | Fox Peak | -43.85 | | 170.81 | |  | Bigelow 1967 |
|  | Fox Peak | -43.86 | | 170.81 | |  | Phoenix |
|  | Fox Peak | -43.85 | | 170.81 | |  | Phoenix |
|  | Fox Peak | -43.86 | | 170.82 | |  | Phoenix |
|  | Fox Peak | -43.85 | | 170.81 | |  | Phoenix |
|  | Galloway Station | -45.21 | | 169.49 | | Sigaus sp. A. | Morris 2002 |
|  | Gem Lake | -45.57 | | 169.11 | | Sigaus obelisci | Dickinson et al. 1998 |
|  | Gem Lake | -45.57 | | 169.10 | | Sigaus obelisci | Tenure Rev. |
|  | Glen Dene | -44.49 | | 169.19 | |  | Tenure Rev. |
|  | Glenaray Station, Dome Hut Ridge | -45.57 | | 168.82 | |  | Tenure Rev. |
|  | Glenaray Station, Garvie Mountains | -45.52 | | 168.79 | |  | Tenure Rev. |
|  | Glenfalloch, Lagoon Peak | -43.38 | | 171.24 | |  | Tenure Rev. |
|  | Glenfalloch, Palmer Range | -43.35 | | 171.24 | |  | Tenure Rev. |
|  | Glenfellan | -45.45 | | 168.76 | |  | Tenure Rev. |
|  | Glenmore | -43.74 | | 170.35 | |  | Tenure Rev. |
|  | Glenorchy, Lake Wakatipu | -44.85 | | 168.44 | |  | Bigelow 1967 |
|  | Glenrock | -44.11 | | 170.58 | |  | Tenure Rev. |
|  | Glenthorne, Birdwood Range | -43.14 | | 171.44 | |  | Tenure Rev. |
|  | Godley Peak, Hall Range | -43.69 | | 170.45 | |  | Tenure Rev. |
|  | Gorge Creek | -45.38 | | 169.27 | |  | Tenure Rev. |
|  | Gorge Creek, Old Man Range | -45.39 | | 169.20 | |  | Tenure Rev. |
|  | Halfway Bay Station | -45.19 | | 168.65 | |  | Tenure Rev. |
|  | Happy Valley | -45.20 | | 169.07 | |  | Tenure Rev. |
|  | Happy Valley | -45.17 | | 169.09 | |  | Tenure Rev. |
|  | Harris Saddle | -44.73 | | 168.17 | |  | Trewick 2008 |
|  | Hawkdun Range | -44.89 | | 170.05 | |  | Patrick 1994 |
|  | Headlong Peak | -44.52 | | 168.58 | |  | Watt 1980 |
|  | Homer Tunnel | -44.77 | | 167.99 | | Sigaus homerensis | Morris 2003 |
|  | Homer Tunnel | -44.77 | | 167.99 | | Sigaus homerensis | Morris 2003 |
|  | Homer Tunnel | -44.76 | | 167.99 | | Sigaus homerensis | Morris 2003 |
|  | Homer Tunnel | -44.76 | | 167.99 | | Sigaus homerensis | Phoenix |
|  | Hunter Valley | -44.27 | | 169.49 | |  | Bigelow 1967 |
|  | Hut Creek | -44.89 | | 167.99 | | Sigaus homerensis | Morris 2003 |
|  | Hut Creek | -44.88 | | 167.99 | | Sigaus homerensis | Morris 2003 |
|  | Hut Creek | -44.88 | | 167.99 | | Sigaus homerensis | Morris 2003 |
|  | Ida Range | -44.94 | | 170.19 | |  | Patrick 1994 |
|  | Invercroy | -44.56 | | 170.55 | | S."Undescribed" | Tenure Rev. |
|  | Invercroy | -44.48 | | 170.57 | |  | Tenure Rev. |
|  | Invercroy Bog | -44.47 | | 170.56 | |  | Tenure Rev. |
|  | Irishman Creek | -44.04 | | 170.34 | |  | Tenure Rev. |
|  | Islay Downs | -45.24 | | 170.47 | |  | Tenure Rev. |
|  | Jane Peak | -45.33 | | 168.34 | | Sigaus obelisci | Mark et al. 1989 |
|  | Kakanui Mountains | -45.19 | | 170.52 | |  | Trewick 2008 |
|  | Kawarau Gorge Mining Centre | -45.04 | | 169.12 | |  | Phoenix |
|  | Kye Burn Stream | -44.95 | | 170.37 | | Sigaus obelisci | Poulin 1995 |
|  | Kye Burn Stream | -44.95 | | 170.37 | |  | Poulin 1995 |
|  | Kyeburn Fraters, Hut Creek | -44.84 | | 170.28 | |  | Tenure Rev. |
|  | Kyeburn, Green Gully Catchment | -44.88 | | 170.33 | |  | Tenure Rev. |
|  | Lake Dunstan | -44.97 | | 169.27 | |  | Phoenix |
|  | Lake Harris, Routeburn | -44.73 | | 168.18 | |  | Phoenix |
|  | Lake Hawea | -44.56 | | 169.37 | |  | Tenure Rev. |
|  | Lake Hawea | -44.56 | | 169.36 | |  | Tenure Rev. |
|  | Lake Hawea | -44.56 | | 169.40 | |  | Tenure Rev. |
|  | Lake Hawea | -44.55 | | 169.44 | |  | Tenure Rev. |
|  | Lake Hawea | -44.55 | | 169.44 | |  | Tenure Rev. |
|  | Lake Ohau, Kettle Holes | -44.31 | | 169.92 | |  | Patrick 1992 |
|  | Lake Pukaki | -44.16 | | 170.22 | |  | Phoenix |
|  | Lake Te Anau | -45.07 | | 167.94 | |  | Bigelow 1967 |
|  | Lake Tekapo | -43.94 | | 170.61 | |  | Bigelow 1967 |
|  | Lake Waitaki | -44.66 | | 170.42 | |  | Bigelow 1967 |
|  | Lake Wakitipu | -44.84 | | 168.31 | |  | Bigelow 1967 |
|  | Lauder Donald Stuarts Creek | -44.88 | | 169.67 | |  | Tenure Rev. |
|  | Lindis Pass | -44.59 | | 169.65 | |  | Bigelow 1967 |
|  | Lindis Pass | -44.58 | | 169.64 | |  | Phoenix |
|  | Lindis Pass | -44.61 | | 169.55 | |  | Trewick 2008 |
|  | Lindis Valley | -44.75 | | 169.51 | |  | Phoenix |
|  | Little Mt Ida | -44.96 | | 170.06 | |  | Tenure Rev. |
|  | Little Valley Rd | -45.28 | | 169.43 | | S. |  |
|  | "Undescribed" | Trewick 2008 | |  | |  |  |
|  | Little Valley Rd | -45.28 | | 169.43 | |  | Trewick 2008 |
|  | Loch Linnhe Whittens, Sproules Face | -45.28 | | 168.88 | |  | Tenure Rev. |
|  | Loch Linnhe, James Peak | -45.25 | | 168.85 | | Sigaus obelisci | Tenure Rev. |
|  | Loch Linnhe, Sproules Creek | -45.24 | | 168.84 | | Sigaus obelisci | Tenure Rev. |
|  | Loch Linnhe, Staircase Creek | -45.19 | | 168.82 | | Sigaus obelisci | Tenure Rev. |
|  | Lochaber, Mt Peel | -43.85 | | 171.15 | |  | Tenure Rev. |
|  | Loganburn Reservoir | -45.54 | | 169.94 | | Sigaus obelisci | Barratt & Patrick 1987 |
|  | Long Gully | -44.77 | | 169.38 | |  | Tenure Rev. |
|  | Long Gully, Luggate- Tarras Rd | -44.77 | | 169.37 | |  | Tenure Rev. |
|  | Longlands Station | -45.16 | | 170.39 | |  | Tenure Rev. |
|  | Maitland Stream | -44.23 | | 169.72 | |  | White 1975 |
|  | Malte Brun Range | -43.55 | | 170.28 | |  | White 1975 |
|  | Manor Burn | -45.25 | | 169.56 | |  | Phoenix |
|  | Manorburn District | -45.37 | | 169.64 | |  | Patrick 1989 |
|  | Manuka Point | -43.26 | | 171.19 | |  | Tenure Rev. |
|  | Mataura Valley | -45.40 | | 168.51 | | Sigaus obelisci | Tenure Rev. |
|  | Mataura Valley | -45.38 | | 168.52 | |  | Tenure Rev. |
|  | Mesopotamia | -43.68 | | 170.72 | |  | Tenure Rev. |
|  | Mid Dome | -45.59 | | 168.54 | | Sigaus obelisci | Bigelow 1967; Dickinson et al. 1998 |
|  | Monkey Creek | -44.80 | | 168.00 | | Sigaus homerensis | Morris 2003 |
|  | Mt Algidus | -43.25 | | 171.35 | |  | Bigelow 1967 |
|  | Mt Alta | -44.54 | | 168.95 | |  | White 1975 |
|  | Mt Arrowsmith | -43.49 | | 171.11 | |  | Tenure Rev. |
|  | Mt Aspiring | -44.49 | | 168.70 | |  | Bigelow 1967 |
|  | Mt Aspiring Station, Rob Roy Flats | -44.51 | | 168.75 | |  | Tenure Rev. |
|  | Mt Aspiring Station, Brides Veil Flat | -44.50 | | 168.69 | |  | Tenure Rev. |
|  | Mt Aspiring Station, Glenfinnan Face | -44.50 | | 168.82 | |  | Tenure Rev. |
|  | Mt Benger | -45.60 | | 169.25 | | Sigaus obelisci | Dickinson et al. 1998 |
|  | Mt Buster | -44.94 | | 170.24 | |  | Patrick 1994 |
|  | Mt Cook | -43.74 | | 170.09 | |  | Bigelow 1967 |
|  | Mt Creighto,n Craigellachie | -44.93 | | 168.58 | | Sigaus obelisci | Tenure Rev. |
|  | Mt Creighton, Ben More | -44.95 | | 168.52 | | Sigaus obelisci | Tenure Rev. |
|  | Mt Creighton, Ben More | -44.95 | | 168.52 | |  | Tenure Rev. |
|  | Mt Creighton, Dead Horse Basin | -44.94 | | 168.55 | | Sigaus obelisci | Tenure Rev. |
|  | Mt Creighton, Luna Basin | -44.92 | | 168.48 | |  | Tenure Rev. |
|  | Mt Creighton, Minor Peak | -44.93 | | 168.45 | |  | Tenure Rev. |
|  | Mt Creighton, Wire Creek | -44.90 | | 168.47 | | Sigaus obelisci | Tenure Rev. |
|  | Mt Creighton, Wire Creek | -44.90 | | 168.47 | |  | Tenure Rev. |
|  | Mt Dasher | -45.18 | | 170.50 | |  | Tenure Rev. |
|  | Mt Dobson | -43.95 | | 170.66 | |  | Trewick 2008 |
|  | Mt Grand | -44.63 | | 169.34 | |  | Tenure Rev. |
|  | Mt Hutt | -43.50 | | 171.54 | |  | Phoenix |
|  | Mt Hutt | -43.52 | | 171.55 | |  | Phoenix |
|  | Mt Hutt | -43.50 | | 171.53 | |  | White 1975 |
|  | Mt Ida Syndicate | -44.84 | | 170.23 | |  | Tenure Rev. |
|  | Mt John | -43.99 | | 170.46 | |  | Trewick 2008 |
|  | Mt Kirkliston | -44.53 | | 170.53 | |  | Bigelow 1967 |
|  | Mt Melina | -44.45 | | 169.56 | |  | Bigelow 1967 |
|  | Mt Olympus | -43.19 | | 171.60 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.61 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.61 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.60 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.60 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.60 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.61 | |  | Phoenix |
|  | Mt Olympus | -43.19 | | 171.61 | |  | Phoenix |
|  | Mt Peel, Canterbury | -43.85 | | 171.16 | |  | Bigelow 1967 |
|  | Mt Scott | -44.99 | | 168.93 | |  | Trewick 2008 |
|  | Mt St Bathans | -44.73 | | 169.75 | |  | Bigelow 1967 |
|  | Mt St Bathans | -44.73 | | 169.76 | |  | Trewick 2008 |
|  | Mt St Bathans, Dunstan Creek | -44.75 | | 169.72 | |  | Tenure Rev. |
|  | Mt St Bathans, Sawtooth Creek | -44.80 | | 169.71 | |  | Tenure Rev. |
|  | Mt Sutton | -44.22 | | 169.78 | |  | Trewick 2008 |
|  | Mt Tennyson | -45.46 | | 168.82 | | Sigaus obelisci | Dickinson et al. 1998 |
|  | Mt Torlesse, Canterbury | -43.27 | | 171.81 | |  | Bigelow 1967 |
|  | Mutton Town Tailings | -45.22 | | 169.35 | | Sigaus sp. A. | Morris 2002 |
|  | Nokomai Range | -45.50 | | 168.72 | |  | Dickinson et al. 1998 |
|  | North Dunstan | -45.00 | | 169.48 | |  | Phoenix |
|  | Obelisk | -45.28 | | 169.21 | |  | Phoenix |
|  | Obelisk, Old Man Range | -45.34 | | 169.21 | | Sigaus obelisci | Tenure Rev. |
|  | Obelisk, Old Man Range | -45.24 | | 169.23 | | Sigaus obelisci | Trewick 2008 |
|  | Obelisk, Old Man Range | -45.32 | | 169.21 | | Sigaus obelisci | Phoenix |
|  | Old Man Range | -45.38 | | 169.18 | | Sigaus obelisci | Bigelow 1967 |
|  | Old Woman Range | -45.18 | | 169.07 | |  | Trewick 2008 |
|  | Omahau Downs | -44.33 | | 170.19 | |  | Tenure Rev. |
|  | Omahau Hills | -44.23 | | 169.95 | |  | Tenure Rev. |
|  | Omarama | -44.47 | | 169.90 | |  | Phoenix |
|  | Omarama, Baldy Knob | -44.61 | | 169.97 | |  | Tenure Rev. |
|  | Omarama, Mt St Cuthbert | -44.55 | | 169.99 | |  | Tenure Rev. |
|  | Pisa Range | -44.88 | | 169.20 | |  | Bigelow 1967 |
|  | Pisgah Downs | -44.99 | | 170.73 | |  | Tenure Rev. |
|  | Plateau Creek | -45.24 | | 167.53 | | Sigaus takahe | Morris 2003 |
|  | Porter Heights | -43.27 | | 171.63 | |  | Mason 1971 |
|  | Porters Pass | -43.30 | | 171.74 | |  | Phoenix |
|  | Pukaki Dam | -44.19 | | 170.15 | |  | Phoenix |
|  | Pukaki Dam | -44.19 | | 170.15 | |  | Phoenix |
|  | Queenstown Area | -45.05 | | 168.79 | |  | Bigelow 1967 |
|  | Raggedy Range Rd | -45.12 | | 169.65 | |  | Phoenix |
|  | Rangitata | -43.71 | | 170.97 | |  | Bigelow 1967 |
|  | Rastus Burn Basin | -45.04 | | 168.82 | | Sigaus obelisci | Patrick et al. 1992 |
|  | Rastus Burn Basin | -45.04 | | 168.82 | |  | Patrick et al. 1992 |
|  | Rastus Burn Reserve | -45.07 | | 168.82 | |  | Phoenix |
|  | Rees Valley, Stn Mt Ferguson | -44.65 | | 168.55 | | Sigaus "Queenstown" | Tenure Rev. |
|  | Remarkables | -45.05 | | 168.81 | |  | Trewick 2008 |
|  | Remarkables Ski Field | -45.03 | | 168.80 | |  | Phoenix |
|  | Remarkables Ski Field | -45.06 | | 168.81 | |  | Phoenix |
|  | Remarkables Ski Field Rd | -45.03 | | 168.80 | |  | Phoenix |
|  | Richmond Richmond Range | -43.85 | | 170.64 | |  | Tenure Rev. |
|  | Rob Roy | -44.47 | | 168.73 | |  | Trewick 2008 |
|  | Robrosa Criffel Range Summit | -44.83 | | 169.12 | | Sigaus obelisci | Tenure Rev. |
|  | Robrosa Pisa Tops | -44.88 | | 169.18 | | Sigaus obelisci | Tenure Rev. |
|  | Rock Pillar Ranges | -45.42 | | 170.07 | |  | Trewick 2008 |
|  | Rocky Top | -44.78 | | 170.30 | |  | Trewick 2008 |
|  | Rolleston Range | -43.17 | | 171.21 | |  | Bigelow 1967 |
|  | Rough Ridge | -45.32 | | 169.83 | |  | Bigelow 1967 |
|  | Sealy Tarns | -43.71 | | 170.08 | |  | Trewick 2008 |
|  | Shag Valley | -45.30 | | 170.58 | |  | Tenure Rev. |
|  | Shenley Hakataramea Valley | -44.26 | | 170.64 | |  | Tenure Rev. |
|  | Shortlands | -45.00 | | 170.34 | |  | Tenure Rev. |
|  | Shortlands | -45.00 | | 170.34 | |  | Tenure Rev. |
|  | Shortlands | -45.03 | | 170.33 | |  | Tenure Rev. |
|  | Shortlands | -44.99 | | 170.34 | |  | Tenure Rev. |
|  | Shortlands | -44.99 | | 170.32 | |  | Tenure Rev. |
|  | Silver Hill | -44.18 | | 170.76 | |  | Tenure Rev. |
|  | Silver Island | -44.45 | | 169.35 | |  | Edwards & Logan 1999 |
|  | Silver Peaks | -45.78 | | 170.34 | |  | Anonymous 1986 |
|  | Silverbirch Station | -45.61 | | 169.22 | | Sigaus obelisci | Tenure Rev. |
|  | Simons Hill | -44.24 | | 170.30 | | Sigaus "Bigelowi" | Tenure Rev. |
|  | Simons Pass | -44.19 | | 170.28 | | Sigaus sp. A. | Tenure Rev. |
|  | Simons Pass | -44.23 | | 170.32 | |  | Phoenix |
|  | Simons Pass, SW Corner | -44.23 | | 170.21 | | Sigaus sp. A. | Tenure Rev. |
|  | Slate Basin | -45.32 | | 168.38 | | Sigaus obelisci | Mark et al. 1989 |
|  | Snow Farm | -44.88 | | 169.09 | |  | Phoenix |
|  | Soldiers Syndicate, Boundary stream | -44.88 | | 170.16 | |  | Tenure Rev. |
|  | Soldiers Syndicate, Guffies Creek | -44.93 | | 170.19 | |  | Tenure Rev. |
|  | Soldiers Syndicate, Long Spur | -44.87 | | 170.22 | |  | Tenure Rev. |
|  | Symmetry Peaks | -45.29 | | 168.57 | | Sigaus obelisci | Mark et al. 1989 |
|  | Symmetry Peaks | -45.29 | | 168.57 | |  | Mark et al. 1989 |
|  | Takahe Valley | -45.28 | | 167.65 | | Sigaus takahe | Morris 2003 |
|  | The Dasher Jimmys Creek | -45.25 | | 170.55 | |  | Tenure Rev. |
|  | The Dasher, Oteporo Spur | -45.21 | | 170.52 | |  | Tenure Rev. |
|  | The Dasher, Siberia Hill | -45.16 | | 170.53 | |  | Tenure Rev. |
|  | The Dasher, Siberia Hill | -45.16 | | 170.52 | |  | Tenure Rev. |
|  | The Grampians | -44.27 | | 170.51 | |  | Tenure Rev. |
|  | The Grampians, Black Rocks | -44.33 | | 170.54 | |  | Tenure Rev. |
|  | The Larches | -44.81 | | 169.14 | |  | Tenure Rev. |
|  | The Larches, Gold Diggings | -44.78 | | 169.15 | |  | Tenure Rev. |
|  | The Larches, Luggate Creek | -44.80 | | 169.13 | |  | Tenure Rev. |
|  | The Wandle Rock, Pillar Range | -45.38 | | 170.14 | |  | Tenure Rev. |
|  | The Wolds, West Marys Range | -44.14 | | 170.24 | | Sigaus sp. A. | Tenure Rev. |
|  | Torlesse Range, Canterbury | -43.25 | | 171.82 | |  | Bigelow 1967 |
|  | Torlesse Range, Canterbury | -43.26 | | 171.82 | |  | Phoenix |
|  | Twin Peaks, Unnamed Stream | -44.58 | | 169.80 | |  | Tenure Rev. |
|  | Twin Peaks, Wether Range | -44.58 | | 169.76 | |  | Tenure Rev. |
|  | Walter Peak, McKinlays Creek | -45.16 | | 168.50 | | Sigaus "Queenstown" | Tenure Rev. |
|  | Walter Peak, White Burn | -45.22 | | 168.39 | | Sigaus "Queenstown" | Tenure Rev. |
|  | Whitecoomb Range | -45.64 | | 169.09 | |  | Dickinson et al. 1998 |
|  |  |  | |  | |  |  |
| **Sigaus campestris** | |  | |  | |  |  |
|  | Allandale | -45.32 | | 168.63 | |  | Tenure Rev. |
|  | Bankside Scientific Reserve | -43.73 | | 172.16 | |  | Emberson et al. 2011 |
|  | Bannockburn Nevis Rd | -45.16 | | 169.10 | |  | Phoenix |
|  | Beaumont, MacKays Creek | -45.65 | | 169.69 | |  | Tenure Rev. |
|  | Beaumont, Northern Block | -45.59 | | 169.77 | |  | Tenure Rev. |
|  | Ben Ledi | -44.98 | | 170.46 | |  | Tenure Rev. |
|  | Ben Lomond | -45.01 | | 168.62 | |  | Bigelow 1967 |
|  | Blue Mts | -45.95 | | 169.32 | |  | Bigelow 1967 |
|  | Bold Peak, Lake Hawea | -44.49 | | 169.34 | |  | Bigelow 1967 |
|  | Castle Dent, Run Block | -45.77 | | 169.95 | |  | Tenure Rev. |
|  | Chetwynd, Albury Range | -44.16 | | 170.73 | |  | Tenure Rev. |
|  | Chetwynd, Coal Stream | -44.14 | | 170.73 | |  | Tenure Rev. |
|  | Chetwynd, upper Tramway Stream | -44.15 | | 170.72 | |  | Tenure Rev. |
|  | Cheviot | -42.82 | | 173.29 | |  | Bigelow 1967 |
|  | Clent Hills | -43.53 | | 171.19 | |  | Tenure Rev. |
|  | Courthill | -45.37 | | 169.25 | |  | Tenure Rev. |
|  | Dansey District | -45.04 | | 170.47 | |  | Patrick 1991 |
|  | Danseys Pass | -44.95 | | 170.38 | |  | Bigelow 1967 |
|  | Danseys Pass | -44.95 | | 170.37 | |  | Phoenix |
|  | Domett Downs | -44.87 | | 170.40 | |  | Tenure Rev. |
|  | East Dome | -45.61 | | 168.70 | |  | Dickinson et al. 1998 |
|  | Erewhon, Havelock River Faces | -43.45 | | 170.72 | |  | Tenure Rev. |
|  | Erewhon, Park Grasslands | -43.56 | | 170.96 | |  | Tenure Rev. |
|  | Flagstaff Hill | -45.83 | | 170.46 | |  | Trewick 2008 |
|  | Fox Peak | -43.85 | | 170.81 | |  | Bigelow 1967 |
|  | Fox Peak | -43.86 | | 170.81 | |  | Phoenix |
|  | Gem Lake | -45.57 | | 169.10 | |  | Dickinson et al. 1998 |
|  | Glenrock | -44.11 | | 170.58 | |  | Tenure Rev. |
|  | Gorge Creek | -45.38 | | 169.27 | |  | Tenure Rev. |
|  | Grange Hill, Hunter Hills | -44.49 | | 170.82 | |  | Tenure Rev. |
|  | Hanmer Springs | -42.51 | | 172.83 | |  | Bigelow 1967 |
|  | Hector Mountains | -45.34 | | 168.82 | |  | Bigelow 1967 |
|  | Hermitage | -43.73 | | 170.09 | |  | Bigelow 1967 |
|  | Hooker Valley | -43.70 | | 170.10 | |  | Bigelow 1967 |
|  | Jane Peak | -45.33 | | 168.34 | |  | Mark et al. 1989 |
|  | Kaituna | -43.74 | | 172.69 | |  | Bigelow 1967 |
|  | Kaiwarua | -44.58 | | 170.88 | |  | Tenure Rev. |
|  | Kinross | -45.28 | | 170.62 | |  | Tenure Rev. |
|  | Kye Burn Stream | -44.95 | | 170.37 | |  | Poulin 1995 |
|  | Lake Forsythe | -43.79 | | 172.73 | |  | Bigelow 1967 |
|  | Lake Mahinerangi | -45.82 | | 169.93 | |  | Bigelow 1967 |
|  | Lake Tekapo | -43.94 | | 170.61 | |  | Bigelow 1967 |
|  | Lake Tekapo | -44.00 | | 170.50 | |  | Phoenix |
|  | Lake Waitaki | -44.66 | | 170.42 | |  | Bigelow 1967 |
|  | Lammermoor Range | -45.67 | | 169.85 | |  | Bigelow 1967 |
|  | Loch Linnhe Whittens, Sproules Face | -45.28 | | 168.88 | |  | Tenure Rev. |
|  | Lochaber, Mt Peel | -43.85 | | 171.15 | |  | Tenure Rev. |
|  | Loganburn Reservoir | -45.54 | | 169.94 | |  | Barratt & Patrick 1987 |
|  | Manuka Point | -43.27 | | 171.23 | |  | Tenure Rev. |
|  | Maryburn | -44.20 | | 170.32 | |  | Tenure Rev. |
|  | Mataura Valley | -45.39 | | 168.53 | |  | Tenure Rev. |
|  | Maungatua, Dunedin | -45.89 | | 170.10 | |  | Phoenix |
|  | Mid Dome | -45.57 | | 168.55 | |  | Bigelow 1967; Dickinson et al. 1998 |
|  | Mt Benger | -45.60 | | 169.25 | |  | Dickinson et al. 1998 |
|  | Mt Creighton, Minor Peak | -44.93 | | 168.44 | |  | Tenure Rev. |
|  | Mt Dasher | -45.18 | | 170.50 | |  | Tenure Rev. |
|  | Mt Dobson | -43.99 | | 170.69 | |  | Phoenix |
|  | Mt Gray | -42.98 | | 171.99 | |  | Bigelow 1967 |
|  | Mt Hay, nth branch Edward Stream | -43.96 | | 170.61 | |  | Tenure Rev. |
|  | Mt Ida, Craigieburn | -43.23 | | 171.54 | |  | Phoenix |
|  | Mt Maungatua | -45.88 | | 170.12 | |  | Bigelow 1967 |
|  | Mt Nimrod | -44.45 | | 170.82 | |  | Tenure Rev. |
|  | Mt Studholm | -44.65 | | 170.92 | |  | Phoenix |
|  | Mt Teviot | -45.59 | | 169.54 | |  | Phoenix |
|  | Nokomai Range | -45.50 | | 168.72 | |  | Dickinson et al. 1998 |
|  | Obelisk, Old Man Range | -45.28 | | 169.21 | |  | Phoenix |
|  | Obelisk, Old Man Range | -45.32 | | 169.21 | |  | Phoenix |
|  | Obelisk, Old Man Range | -45.24 | | 169.23 | |  | Phoenix |
|  | Old Man Range | -45.38 | | 169.23 | |  | Trewick 2008 |
|  | Oxford | -43.27 | | 172.17 | |  | Bigelow 1967 |
|  | Parasol Hill | -45.72 | | 169.04 | |  | Dickinson et al. 1998 |
|  | Patearoa | -45.32 | | 169.96 | |  | Allan & McIntosh 1997 |
|  | Port Hills | -43.59 | | 172.71 | |  | Bigelow 1967 |
|  | Purau | -43.66 | | 172.76 | |  | Bigelow 1967 |
|  | Rakaia Valley | -43.41 | | 171.56 | |  | Bigelow 1967 |
|  | Rangitata Valley | -43.73 | | 171.09 | |  | Bigelow 1967 |
|  | Red Tussock Reserve | -45.55 | | 168.00 | |  | Phoenix |
|  | Rees Vally Station, Mt Ferguson | -44.67 | | 168.53 | |  | Tenure Rev. |
|  | Richmond Camp Stream Coal River | -43.81 | | 170.65 | |  | Tenure Rev. |
|  | Scotsburn | -43.92 | | 171.21 | |  | Tenure Rev. |
|  | Seaward Moss | -46.43 | | 168.43 | |  | Bigelow 1967 |
|  | Silver Hill | -44.18 | | 170.76 | |  | Tenure Rev. |
|  | Silver Peaks | -45.78 | | 170.34 | |  | Anonymous 1986 |
|  | Slate Range | -45.53 | | 168.63 | |  | Dickinson et al. 1998 |
|  | Sumner | -43.60 | | 172.76 | |  | Bigelow 1967 |
|  | Symmetry Peaks | -45.29 | | 168.57 | |  | Mark et al. 1989 |
|  | Takitimu Mountains | -45.68 | | 167.87 | |  | Bigelow 1967 |
|  | The Dasher, Jimmys Creek | -45.25 | | 170.55 | |  | Tenure Rev. |
|  | The Dasher, Siberia Hill | -45.16 | | 170.53 | |  | Tenure Rev. |
|  | The Gorge | -43.90 | | 171.19 | |  | Tenure Rev. |
|  | Turinui Razorback | -45.37 | | 170.72 | |  | Phoenix |
|  | Turinui Razorback | -45.37 | | 170.71 | |  | Phoenix |
|  | Turinui Razorback | -45.37 | | 170.71 | |  | Phoenix |
|  | Waikaia Bush | -45.50 | | 169.09 | |  | Dickinson et al. 1998 |
|  | Wairuna | -46.18 | | 169.29 | |  | Bigelow 1967 |
|  | Walter Peak, Head McKinlays Creek | -45.16 | | 168.50 | |  | Tenure Rev. |
|  | Walter Peak, McKinlays Creek | -45.15 | | 168.58 | |  | Tenure Rev. |
|  | Walter Peak, White Burn | -45.22 | | 168.39 | |  | Tenure Rev. |
|  | Wilberforce Valley | -43.27 | | 171.42 | |  | Bigelow 1967 |
|  |  |  | |  | |  |  |
| ***Sigaus childi*** | |  | |  | |  |  |
|  | Alexandra | -45.25 | | 169.37 | |  | Jamieson 1999a & 1999b |
|  | Alexandra Tailings | -45.25 | | 169.37 | |  | Morris 2002 |
|  | Crawford Hills | -45.21 | | 169.49 | |  | Jamieson 1999a, 1999b, 1996, Jamieson & Manly 1997 |
|  | Crawford Hills | -45.22 | | 169.56 | |  | Jamieson 1999a, 1999b, 1997, Jamieson & Manly1997 |
|  | Crawford Hills | -45.21 | | 169.58 | |  | Jamieson 1999a, 1999b, 1998, Jamieson & Manly 1997 |
|  | Crawford Hills | -45.21 | | 169.49 | |  | Jamieson 1999a, 1999b, 1999, Jamieson & Manly 1997, Morris 2002 |
|  | Crawford Hills | -45.21 | | 169.55 | |  | Phoenix |
|  | Earnscleugh | -45.22 | | 169.34 | |  | Jamieson 1998 |
|  | Earnscleugh | -45.24 | | 169.34 | |  | Jamieson 1998 |
|  | Earnscleugh | -45.23 | | 169.35 | |  | Jamieson 1998 |
|  | Earnscleugh | -45.24 | | 169.35 | |  | Jamieson 1998 |
|  | Earnscleugh | -45.23 | | 169.36 | |  | Jamieson 1998 |
|  | Earnscleugh | -45.24 | | 169.36 | |  | Jamieson 1998 |
|  | Earnscleugh | -45.24 | | 169.35 | |  | Jamieson 1998 |
|  | Earnscleugh | -45.24 | | 169.36 | |  | Jamieson 1998 |
|  | Earnscleugh | -45.24 | | 169.35 | |  | Jamieson 1998 |
|  | Earnscleugh | -45.25 | | 169.35 | |  | Jamieson 1998 |
|  | Earnscleugh | -45.24 | | 169.35 | |  | Jamieson 1999a, 1999b, 1998, Morris 2002 |
|  | Earnscleugh | -45.24 | | 169.35 | |  | Trewick 2008 |
|  | Galloway | -45.20 | | 169.48 | |  | Jamieson 1999a, 1999b, 1996, Jamieson & Manly 1997 |
|  | Galloway | -45.22 | | 169.47 | |  | Patrick 1989 |
|  | Graveyard Gully | -45.27 | | 169.41 | |  | Bigelow 1967 |
|  | Graveyard Gully | -45.26 | | 169.40 | |  | Trewick 2008 |
|  | Graveyard Gully Ridge | -45.27 | | 169.40 | |  | Phoenix |
|  | Little Valley Rd | -45.23 | | 169.48 | |  | Jamieson 1999a & 1999b |
|  | Little Valley Rd | -45.23 | | 169.48 | |  | Jamieson 1999a & 1999b |
|  | Little Valley Rd | -45.24 | | 169.48 | |  | Jamieson 1999a & 1999b |
|  | Little Valley Rd | -45.26 | | 169.49 | |  | Jamieson 1999a & 1999b |
|  | Little Valley Rd | -45.26 | | 169.48 | |  | Jamieson 1999a & 1999b |
|  | Little Valley Rd | -45.27 | | 169.45 | |  | Jamieson 1999a & 1999b |
|  | Little Valley Rd | -45.28 | | 169.44 | |  | Jamieson 1999a & 1999b |
|  | Little Valley Rd | -45.28 | | 169.44 | |  | Jamieson 1999a & 1999b |
|  | Little Valley Rd | -45.25 | | 169.42 | |  | Jamieson 1999a, 1999b, 1996, Jamieson & Manly 1997 |
|  | Little Valley Rd | -45.26 | | 169.41 | |  | Phoenix |
|  | Little Valley Rd | -45.28 | | 169.43 | |  | Trewick 2008 |
|  | Lower Manor Burn | -45.24 | | 169.46 | |  | Phoenix |
|  | Manor Burn | -45.25 | | 169.56 | |  | Phoenix |
|  | Manor Burn Rd | -45.25 | | 169.51 | |  | Jamieson 1999a, 1999b, 1996, Jamieson & Manly 1997 |
|  | Manor Burn Rd | -45.27 | | 169.54 | |  | Jamieson 1999a, 1999b, 1996, Jamieson & Manly 1997 |
|  | Manor Burn Rd | -45.27 | | 169.56 | |  | Jamieson 1999a, 1999b, 1996, Jamieson & Manly 1997 |
|  | Mutton Town Tailings | -45.22 | | 169.35 | |  | Morris 2002 |
|  |  |  | |  | |  |  |
| ***Sigaus minutus*** | |  | |  | |  |  |
|  | Ahuriri River, Omarama | -44.47 | | 169.94 | |  | Phoenix |
|  | Black Forest North | -44.41 | | 170.41 | |  | Tenure Rev. |
|  | Blackforest | -44.37 | | 170.37 | |  | Phoenix |
|  | Cass River | -43.90 | | 170.49 | |  | Patrick 1992 |
|  | Cowans Hill, Tekapo | -44.02 | | 170.49 | |  | Phoenix |
|  | Curraghmore | -44.37 | | 170.37 | |  | Tenure Rev. |
|  | Edward Stream | -44.05 | | 170.52 | |  | Jamieson 1999a |
|  | Edward Stream | -44.06 | | 170.50 | |  | Phoenix |
|  | Glenmore Tarns Moraine | -43.87 | | 170.42 | |  | Tenure Rev. |
|  | Glenmore Tarns Moraine | -43.87 | | 170.42 | |  | Tenure Rev. |
|  | Glenmore Tarns Moraine | -43.87 | | 170.42 | |  | Tenure Rev. |
|  | Glenmore, Cass River Delta | -43.88 | | 170.48 | |  | Tenure Rev. |
|  | Glenrock Station, Sawdon Flats | -44.10 | | 170.54 | |  | Tenure Rev. |
|  | Godley Peak, Hazard Range | -43.83 | | 170.43 | |  | Tenure Rev. |
|  | Grays Hills | -44.28 | | 170.39 | |  | Jamieson 1999a |
|  | Haldon Rd | -44.34 | | 170.26 | |  | Jamieson 1999a |
|  | Happy Valley | -45.17 | | 169.13 | |  | Tenure Rev. |
|  | Lake Tekapo | -43.94 | | 170.61 | |  | Bigelow 1967 |
|  | Lake Tekapo | -44.01 | | 170.50 | |  | Jamieson 1999a |
|  | Lake Tekapo | -44.02 | | 170.48 | |  | Trewick 2008 |
|  | Maryburn, Tekapo floodplains | -44.22 | | 170.35 | |  | Tenure Rev. |
|  | Mt Gerald, The Island | -43.77 | | 170.56 | |  | Tenure Rev. |
|  | Mt Hay | -43.90 | | 170.60 | |  | Tenure Rev. |
|  | Omahau Downs | -44.33 | | 170.19 | |  | Tenure Rev. |
|  | Omahau Hills | -44.26 | | 169.95 | |  | Tenure Rev. |
|  | Omarama | -44.49 | | 169.97 | |  | Jamieson 1999a |
|  | Omarama, Old Man Creek | -44.53 | | 169.97 | |  | Tenure Rev. |
|  | Richmond Coal Creek Washout | -43.80 | | 170.58 | |  | Tenure Rev. |
|  | Simons Pass, Pukaki River Terraces | -44.26 | | 170.21 | |  | Tenure Rev. |
|  | Simons Pass, Pukaki River Terraces | -44.25 | | 170.21 | |  | Tenure Rev. |
|  | Simons Pass, Pukaki River Terraces | -44.25 | | 170.23 | |  | Tenure Rev. |
|  | Simons Pass, Pukaki River Terraces | -44.24 | | 170.19 | |  | Tenure Rev. |
|  | Simons Pass, Pukaki River Terraces | -44.23 | | 170.20 | |  | Tenure Rev. |
|  | Simons Pass, Pukaki River Terraces | -44.23 | | 170.20 | |  | Tenure Rev. |
|  | Simons Pass, Pukaki River Terraces | -44.22 | | 170.18 | |  | Tenure Rev. |
|  | Tekapo River Terrace | -44.02 | | 170.48 | |  | Jamieson 1999a |
|  | Tekapo River Terrace | -44.04 | | 170.50 | |  | Patrick 1992 |
|  | Tekapo Riverbed | -44.07 | | 170.43 | |  | Patrick 1992 |
|  | The Grampians Snow River | -44.22 | | 170.50 | |  | Tenure Rev. |
|  | The Grampians, Mackenzie River | -44.18 | | 170.54 | |  | Tenure Rev. |
|  | The Grampians, Snow River | -44.22 | | 170.50 | |  | Tenure Rev. |
|  | The Grampians, Snow River | -44.22 | | 170.50 | |  | Tenure Rev. |
|  | The Wolds | -44.08 | | 170.42 | |  | Phoenix |
|  | The Wolds, Tekapo river Terraces | -44.08 | | 170.42 | |  | Tenure Rev. |
|  | The Wolds, Tekapo River Terraces | -44.08 | | 170.42 | |  | Tenure Rev. |
|  | Twin Peaks, Ahuriri Outwash | -44.53 | | 169.85 | |  | Tenure Rev. |
|  |  |  | |  | |  |  |
| ***Sigaus piliferus* (LW)** | | |  | |  |  |  | |
|  | Armstrong Saddle | -39.78 | | 176.17 | |  | Phoenix |
|  | Awaawaroa Ridge, Waikaremoana | -38.78 | | 177.14 | |  | Phoenix |
|  | East Kaweka Range | -39.28 | | 176.38 | |  | Phoenix |
|  | Iwikau Village | -39.24 | | 175.56 | |  | Phoenix |
|  | Kaimanawa Range | -39.12 | | 175.96 | |  | Bigelow 1967 |
|  | Kauaeranga Valley, Coromandel | -37.02 | | 175.70 | |  | Bigelow 1967 |
|  | Kaweka Range | -39.29 | | 176.38 | |  | Bigelow 1967 |
|  | Kuripapango Hill | -39.40 | | 176.33 | |  | Phoenix |
|  | Lake Waikaremoana | -38.75 | | 177.16 | |  | Brock 1980 |
|  | Lake Waikaremoana | -38.75 | | 177.16 | |  | Phoenix |
|  | Makahu Spur, Kawekas | -39.29 | | 176.40 | |  | Phoenix |
|  | Maungatautari, Cambridge | -38.03 | | 175.58 | |  | Bigelow 1967 |
|  | Mt Hikurangi | -38.29 | | 178.22 | |  | Bigelow 1967 |
|  | Mt Hikurangi | -38.29 | | 178.22 | |  | Phoenix |
|  | Mt Karioi | -37.86 | | 174.80 | |  | Trewick & Morris 2008 |
|  | Mt Piorongio | -37.98 | | 175.12 | |  | Phoenix |
|  | Mt Ruapehu | -39.31 | | 175.53 | |  | Phoenix |
|  | Mt Ruapehu, near Ohakune | -39.36 | | 175.47 | |  | Phoenix |
|  | Ohakune | -39.40 | | 175.43 | |  | Phoenix |
|  | Pirongia Range | -38.01 | | 175.14 | |  | Trewick & Morris 2008 |
|  | Pohangina Saddle, Ruahines | -39.94 | | 176.11 | |  | Bigelow 1967 |
|  | Pukahunui Valley | -38.92 | | 176.65 | |  | Phoenix |
|  | Rangipo Desert | -39.31 | | 175.74 | |  | Phoenix |
|  | Rangiwahia Hut | -39.89 | | 176.02 | |  | Phoenix |
|  | Rotorua | -38.12 | | 176.20 | |  | Bigelow 1967 |
|  | Ruahine Corner Hut | -39.63 | | 176.17 | |  | Phoenix |
|  | Ruahine Range | -40.12 | | 175.96 | |  | Bigelow 1967 |
|  | Ruakituri Valley | -38.81 | | 177.45 | |  | Phoenix |
|  | Smith Russell track | -39.34 | | 176.32 | |  | Phoenix |
|  | Taihape-Napier Rd | -39.47 | | 176.01 | |  | Bigelow 1967 |
|  | Takarere Rd | -39.06 | | 176.54 | |  | Phoenix |
|  | Tauhara Summit Taupo | -38.70 | | 176.16 | |  | Bigelow 1967 |
|  | Te Araroa | -37.64 | | 178.36 | |  | Trewick & Morris 2008 |
|  | Tongariro National Park | -39.14 | | 175.60 | |  | Bigelow 1967 |
|  | Waihaha River, Lake Taupo | -38.74 | | 175.56 | |  | Bigelow 1967 |
|  | Waiouru | -39.50 | | 175.75 | |  | Bigelow 1967 |
|  | Waipawa Saddle | -39.81 | | 176.15 | |  | Phoenix |
|  | Whenuakura | -38.77 | | 175.64 | |  | Trewick & Morris 2008 |
|  |  |  | |  | |  |  |
| ***Sigaus piliferus* (MH)** | | |  | |  |  |  | |
|  | Between Arete & Pukematawai | -40.75 | | 175.43 | |  | Phoenix |
|  | Bridge Peak, Tararuas | -40.94 | | 175.27 | |  | Phoenix |
|  | Mt Hector | -40.95 | | 175.28 | |  | Phoenix |
|  | Mt Holdsworth | -40.88 | | 175.42 | |  | Phoenix |
|  | Tararua Forest Park | -40.63 | | 175.52 | |  | Bigelow 1967 |
|  | Tararua Rd, Arete | -40.75 | | 175.43 | |  | Phoenix |
|  | Tararua Rd, Dundas | -40.73 | | 175.45 | |  | Phoenix |
|  | Tararua Rd, Pukematawai | -40.75 | | 175.42 | |  | Phoenix |
|  |  |  | |  | |  |  |
| ***Sigaus villosus*** | |  | |  | |  |  |
|  | Craigieburn | -43.10 | | 171.71 | |  | Mason 1971 |
|  | Craigieburn | -43.13 | | 171.67 | |  | Watson 1970 |
|  | Craigieburn Range, Canterbury | -43.15 | | 171.66 | |  | Bigelow 1967 |
|  | Double Hill | -43.34 | | 171.28 | |  | Tenure Rev. |
|  | Erewhon Cloudy Stream | -43.44 | | 170.76 | |  | Tenure Rev. |
|  | Fox Peak | -43.85 | | 170.81 | |  | Bigelow 1967 |
|  | Fox Peak | 43.85 | | 170.80 | |  | Phoenix |
|  | Fox Peak | 43.84 | | 170.79 | |  | Phoenix |
|  | Glenfalloch, Palmer Range | -43.35 | | 171.24 | |  | Tenure Rev. |
|  | Glenthorne | -43.15 | | 171.45 | |  | Tenure Rev. |
|  | Hodder Valley, Tapuanuka | -41.98 | | 173.64 | |  | Bigelow 1967 |
|  | Mesopotamia, Two Thumbs Range | -43.68 | | 170.70 | |  | Tenure Rev. |
|  | Mt Arrowsmith | -43.49 | | 171.11 | |  | Tenure Rev. |
|  | Mt Binser | -43.03 | | 171.86 | |  | Bigelow 1967 |
|  | Mt Dobson | -43.93 | | 170.66 | |  | Phoenix |
|  | Mt Dobson | -43.94 | | 170.67 | |  | Trewick 2008 |
|  | Mt Hamilton | -43.58 | | 170.33 | |  | Bigelow 1967 |
|  | Mt Hutt | -43.49 | | 171.54 | |  | Phoenix |
|  | Porter Heights | -43.27 | | 171.63 | |  | Mason 1971 |
|  | Porter Heights Ski Field | -43.27 | | 171.64 | |  | Phoenix |
|  | Richmond, Richmond Range | -43.86 | | 170.66 | |  | Tenure Rev. |
|  | Torlesse Range, Canterbury | -43.26 | | 171.83 | |  | Bigelow 1967 |
|  | Wild Mans Brother Range | -43.39 | | 171.01 | |  | Bigelow 1967 |

Allen, R. B., & McIntosh, P. D. (1995). Guidelines for conservation of salt pans in Central Otago. Science for conservation No. 49. Department of Conservation, Wellington, New Zealand.

Barrett, B. I. P. & Patrick, B. H. (1987). Insects of snow tussock grassland on the East Otago plateau. New Zealand Entomologist, 10(1): 69-98.

Batcheler, C. L. (1967). Preliminary observations of alpine grasshoppers in a habitat modified by deer and chamois. Proceedings of the New Zealand Ecological Society, 14:15-26.

Bigelow, R. S. (1967). The grasshoppers (Acrididae) of New Zealand; their taxonomy and distribution. University of Canterbury Publications, Christchurch, New Zealand.

Brock, R. L. (1980). Some records of butterflies, grasshoppers, and crickets in the Urewera National Park. New Zealand Entomologist, 7(2), 150-151.

Dickinson, K. J. M., Mark, A. F., Barratt, B. I. P. & Patrick, B. H. (1998). Rapid ecological survey, inventory and implementation: a case study from Waikaia Ecological Region, New Zealand. Journal of the Royal Society of New Zealand, 28(1): 83-156.

Edwards, E. D., & Logan, R. (1999). Ecological assessment of two islands in west Otago lakes for potential re-introduction of buff weka (Gallirallus australis hectori). Department of Conservation, Wellington New Zealand.

Emberson, R., Syrett, P., & Groenteman, R. (2011). Bankside Scientific Reserve---an important refuge for Canterbury's dryland insect fauna. Weta, 41, 4-26.

Jamieson, C. D. (1999a). A new species of Sigaus from Alexandra, New Zealand (Orthoptera: Acrididae). New Zealand Journal of Zoology, 26(1), 43-48.

Jamieson, C. D. (1999b). Distribution and abundance of Sigaus childi Jamieson (Orthoptera: Acrididae), a Central Otago endemic grasshopper. Department of Conservation.

Jamieson, C. D. (1998). Distribution of the endangered grasshopper Sigaus minutus on the Earnscleugh Tailings Historic Reserve. Department of Conservation, Wellington, New Zealand.

Jamieson, C. D. (1996). The grasshopper Sigaus minutus in Central Otago: a pilot study. Department of Conservation, Wellington, NewZealand.

Jamieson, C. D., & Manly, B. F. (1997). A statistical analysis of the habitat requirements of the endangered grasshopper Sigaus sp.(Orthoptera: Acrididae). New Zealand Entomologist, 20(1), 61-66.

Mark, A. F., Dickinson, K. J. M., Patrick, B. H., Barratt, B. I. P., Loh, G., McSweeney,

G. D., Meurk, C. D., Timmins, S. M., Simpson, N. C. & Wilson, J. B. (1989). An ecological survey of the central part of the Eyre Ecological District northern Southland, New Zealand. Journal of the Royal Society of New Zealand, 19(4): 349-384.

Mason, P. C. (1971). Alpine grasshoppers (Orthoptera: Acrididae) in the Southern Alps of Canterbury, New Zealand (Doctoral dissertation, Univeristy of Canterbury, Christchurch, New Zealand).

Morris, S. J. (2003). Two new species of Sigaus from Fiordland, New Zealand (Orthoptera: Acrididae). The New Zealand Entomologist, 26: 65-74

Morris, S.J. (2002a). Distribution and taxonomic status of New Zealand endangered grasshoppers (Orthoptera: Acrididae). Department of Conservation, Wellington, New Zealand

Northcroft, M. A. (1967). The immature stages of Phaulacridium marginale (Walker) and Sigaus campestris (Hutton)(Orthoptera: Acrididae) (Doctoral dissertation, Univeristy of Canterbury, Christchurch, New Zealand).

Patrick, B. (1994). Hawkdun ecological District invertebrate survey. Department of Conservation, Wellington, New Zealand.

Patrick, B. H. (1991). Insects of Dansey ecological district. Science and Research Series No 32. Department of Conservation, Wellington, New Zealand.

Patrick, B. H. (1989). Lepidoptera, Cicadidae, Acrididae of the Manorburn ecological district. Science and Research Internal Report No. 60, Department of Conservation, Wellington, New Zealand.

Patrick, B. H., Lyford, B. M., Ward, J. B., & Barratt, B. I. (1992). Lepidoptera and other insects of the Rastus Burn Basin, the Remarkables, Otago. Journal of the Royal Society of New Zealand, 22(4), 265-278.

Peterson, A. J. (1968). Geographical variation in Paprides nitidus (Hutton) (Orthoptera: Acrididae). New Zealand Journal of Science, 11: 693-705

Poulin, R. (1995). Hairworms (Nematomorpha: Gordioidea) infecting New Zealand short-horned grasshoppers (Orthoptera: Acrididae). The Journal of Parasitology, 81(1), 121-122.

Trewick, S. A. (2008). DNA barcoding is not enough: mismatch of taxonomy and genealogy in New Zealand grasshoppers (Orthoptera: Acrididae). Cladistics, 24(2): 240-254

Trewick, S. A. (2001). Identity of an endangered grasshopper (Acrididae: Brachaspis): taxonomy, molecules and conservation. Conservation Genetics, 2: 233-243.

Trewick, S. & Morris, S. (2008). Diversity and taxonomic status of some New Zealand grasshoppers. DOC Research and Development Series No. 290, Department of Conservation, Wellington, New Zealand.

Watson, R. N. (1971). The feeding behaviour of alpine grasshoppers (Acrididae: Orthoptera), in the Craigieburn Range, Canterbury, New Zealan (Masters thesis, Lincoln College, University of Canterbury, New Zealand).

Watt, J. C. (1980). Notes on pitfall trapping on Headlong Peak, Mount Aspiring National Park. New Zealand Entomologist, 7(2), 184-191.

White, E. G. (1994). Ecological research and monitoring of the protected grasshopper Brachaspis robustus in the Mackenzie Basin. Science and Research Series No. 77, Department of Conservation, Wellington, New Zealand.

White, E. G. & Sedcole, J. R. (1991). A 20-year record of alpine grasshopper abundance with interpretations for climate change. New Zealand Journal of Ecology, 15(2): 139-152.

White, E.G. (1975). A survey and assessment of grasshoppers as herbivores in the South Island tussock grasslands of New Zealand. New Zealand Journal of Agriculture Research, 18(1): 73-85.

White, E. G. (1974). A quantitative biology of three New Zealand alpine grasshopper species. New Zealand Journal of Agriculture Research, 17(2): 207-227