

## Supplementary information

Table S1. *Phytophthora multivora* isolates used in this study

| No. | Isolate  | Continent<br>Islands | Country      | Region  | Host or substrate              | Year | SSR_ID       | Seq_ID     |
|-----|----------|----------------------|--------------|---|--------------------------------|------|--------------|------------|
| 1   | CMW35215 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | Forest soil                    | 2010 | SA_CMW35215  | -          |
| 2   | CMW35217 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | Forest soil                    | 2010 | SA_CMW35217  | -          |
| 3   | CMW35218 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | Forest soil                    | 2010 | SA_CMW35218  | -          |
| 4   | CMW35220 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | Forest soil                    | 2010 | SA_CMW35220  | -          |
| 5   | CMW35222 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | Forest soil                    | 2010 | SA_CMW35222  | -          |
| 6   | CMW35237 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | SA_CMW35237  | -          |
| 7   | CMW35239 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | SA_CMW35239  | -          |
| 8   | CMW35243 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | SA_CMW35243  | -          |
| 9   | CMW35245 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | SA_CMW35245  | -          |
| 10  | CMW35249 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | SA_CMW35249  | -          |
| 11  | CMW35251 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | SA_CMW35251  | -          |
| 12  | CMW35253 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | SA_CMW35253  | -          |
| 13  | CMW35255 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | SA_CMW35255  | -          |
| 14  | CMW35320 | Africa               | South Africa | Kwa Zulu Natal,                               | <i>Bauhiuia variegata</i>      | 2010 | SA_CMW35320  | -          |
| 15  | CMW35322 | Africa               | South Africa | Kwa Zulu Natal,                               | <i>Magnolia soulangiana</i>    | 2010 | SA_CMW35322  | -          |
| 16  | CMW35324 | Africa               | South Africa | Kwa Zulu Natal,                               | <i>Camellia</i> spp.           | 2010 | SA_CMW35324  | -          |
| 17  | CMW35326 | Africa               | South Africa | Kwa Zulu Natal,                               | <i>Camellia</i> spp.           | 2010 | SA_CMW35326  | -          |
| 18  | CMW35330 | Africa               | South Africa | Kwa Zulu Natal,                               | Forest soil                    | 2010 | SA_CMW35330  | -          |
| 19  | CMW35331 | Africa               | South Africa | Kwa Zulu Natal,                               | Forest soil                    | 2010 | SA_CMW35331  | -          |
| 20  | CMW35332 | Africa               | South Africa | Kwa Zulu Natal,                               | Forest soil                    | 2010 | SA_CMW35332  | -          |
| 21  | CMW35513 | Africa               | South Africa | Kwa Zulu Natal,                               | <i>Liriodendron tulipifera</i> | 2010 | SA_CMW35513  | -          |
| 22  | CMW35959 | Africa               | South Africa | Mpumulunga, Lydenburg,<br>Buffelskloof NR     | Water                          | 2010 | SA_CMW35959  | -          |
| 23  | P1821    | Africa               | South Africa | -   | <i>Ocotea bullata</i>          | 2010 | SA_P1821     | -          |
| 24  | CMW33963 | Africa               | South Africa | Transvaal, Buckelskloof                       | Forest soil                    | 2010 | SA_CMW33963  | CMW33963   |
| 25  | CMW33964 | Africa               | South Africa | Western Cape, Jonkershoek,<br>Nature Reserve  | Forest soil                    | 2010 | SA_CMW33964  | CMW33964   |
| 26  | CMW33967 | Africa               | South Africa | Western Cape, Bettys Bay<br>Harold Potter NBG | <i>Rapanea</i> spp.            | 2010 | SA_CMW33967  | CMW33967   |
| 27  | CMW35209 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | <i>Cryptocarya latifolia</i>   | 2010 | SA_CMW35209  | CMW35209   |
| 28  | CMW35209 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | <i>Cryptocarya latifolia</i>   | 2010 | -            | CMW35209-1 |
| 29  | CMW35209 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | <i>Cryptocarya latifolia</i>   | 2010 | -            | CMW35209-3 |
| 30  | CMW35221 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | Forest soil                    | 2010 | SA_CMW35221  | CMW35221   |
| 31  | CMW35221 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | Forest soil                    | 2010 | -            | CMW35221-1 |
| 32  | CMW35221 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | Forest soil                    | 2010 | -            | CMW35221-2 |
| 33  | CMW35221 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | Forest soil                    | 2010 | -            | CMW35221-3 |
| 34  | CMW35236 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | SA_CMW35236  | CMW35236   |
| 35  | CMW35236 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | -            | CMW35236-1 |
| 36  | CMW35236 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | -            | CMW35236-2 |
| 37  | CMW35241 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | SA_CMW35241  | CMW35241   |
| 38  | CMW35279 | Africa               | South Africa | Kwa Zulu Natal,                               | Forest soil                    | 2010 | SA_CMW35279  | CMW35279   |
| 39  | CMW35514 | Africa               | South Africa | Kwa Zulu Natal,                               | <i>Liriodendron tulipifera</i> | 2010 | SA_CMW35514  | CMW35514   |
| 40  | P1817    | Africa               | South Africa | RSA, Western Cape                             | <i>Medicago sativa</i>         | 2011 | SA_P1817     | P1817      |
| 41  | P1817    | Africa               | South Africa | RSA, Western Cape                             | <i>Medicago sativa</i>         | 2011 | -            | P1817-2    |
| 42  | P1818    | Africa               | South Africa | RSA, Western Cape                             | <i>Medicago sativa</i>         | 2011 | SA_P1818     | P1818      |
| 43  | CMW35216 | Africa               | South Africa | Kwa Zulu Natal, Umtamvuna                     | Forest soil                    | 2010 | SA_CMW35216  | CMW35216   |
| 44  | CMW33966 | Africa               | South Africa | Western Cape, Bettys Bay<br>Harold Potter NBG | <i>Rapanea</i> spp.            | 2010 | SA_CMW33966  | CMW33966   |
| 45  | CMW33968 | Africa               | South Africa | Western Cape, Bettys Bay<br>Harold Potter NBG | <i>Rapanea</i> spp.            | 2010 | SA_CMW33968  | CMW33968   |
| 46  | CMW35250 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Forest soil                    | 2010 | SA_CMW35250  | CMW35250   |
| 47  | CMW35280 | Africa               | South Africa | Kwa Zulu Natal,                               | <i>Prunus</i> spp.             | 2010 | SA_CMW35280  | CMW35280   |
| 48  | CMW33959 | Africa               | South Africa | Mpumulunga, Lydenburg,<br>Buffelskloof NR     | <i>Heteropyxis canescens</i>   | 2010 | -            | CMW33959   |
| 49  | CMW33959 | Africa               | South Africa | Mpumulunga, Lydenburg,<br>Buffelskloof NR     | <i>Heteropyxis canescens</i>   | 2010 | -            | CMW33959-1 |
| 50  | CMW33959 | Africa               | South Africa | Mpumulunga, Lydenburg,<br>Buffelskloof NR     | <i>Heteropyxis canescens</i>   | 2010 | -            | CMW33959-2 |
| 51  | CMW33961 | Africa               | South Africa | Mpumulunga, Schagen, Near<br>Sudwala Caves    | Forest soil                    | 2010 | SA_CMW33961  | CMW33961   |
| 52  | CMW35234 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Water                          | 2010 | SA_CMW35234  | CMW35234   |
| 53  | CMW35235 | Africa               | South Africa | Kwa Zulu Natal, Ingeli Forest                 | Water                          | 2010 | SA_CMW35235  | CMW35235   |
| 54  | CMW35512 | Africa               | South Africa | Kwa Zulu Natal,<br>Pietermaritzburg, NBG      | <i>Camellia</i> spp.           | 2010 | SA_CMW35512  | CMW35512   |
| 55  | DDS1160  | Australia            | Australia    | WA, Ellis Creek SF                            | <i>Banksia grandis</i>         | 1986 | AuWe_DDS1160 | -          |
| 56  | DDS1177  | Australia            | Australia    | WA, Leeuwin-Naturaliste NP                    | <i>Dryandra sessilis</i>       | 1986 | AuWe_DDS1177 | -          |
| 57  | DDS3368  | Australia            | Australia    | WA, Eneabba                                   | <i>Gastrolobium spinosum</i>   | 1990 | AuWe_DDS3368 | -          |
| 58  | DDS3411  | Australia            | Australia    | WA, Donnelly SF                               | <i>Patersonia</i> spp.         | 1991 | AuWe_DDS3411 | -          |
| 59  | DDS3440  | Australia            | Australia    | WA, Lake Muir SF                              | Forest soil                    | 1992 | AuWe_DDS3440 | -          |
| 60  | DDS3445  | Australia            | Australia    | WA, Lake Muir SF                              | <i>Patersonia</i> spp.         | 1992 | AuWe_DDS3445 | -          |
| 61  | DDS3458  | Australia            | Australia    | WA, Perth                                     | <i>Conospermum</i> spp.        | 1992 | AuWe_DDS3458 | -          |
| 62  | DDS3472  | Australia            | Australia    | WA, Lake Muir SF                              | <i>Patersonia</i> spp.         | 1992 | AuWe_DDS3472 | -          |
| 63  | DDS3480  | Australia            | Australia    | WA, Perth                                     | <i>Lambertia echinata</i>      | 1992 | AuWe_DDS3480 | -          |
| 64  | DDS3566  | Australia            | Australia    | WA, Mount Frankland NP                        | <i>Patersonia</i> spp.         | 1993 | AuWe_DDS3566 | -          |

|     |          |           |           |                         |                                 |      |               |   |
|-----|----------|-----------|-----------|-------------------------|---------------------------------|------|---------------|---|
| 65  | DDS3571  | Australia | Australia | WA, Fitzgerald River NP | <i>Banksia attenuata</i>        | 1993 | AuWe_DDS3571  | - |
| 66  | DDS3613  | Australia | Australia | WA, Donnelly SF         | <i>Patersonia</i> spp.          | 1994 | AuWe_DDS3613  | - |
| 67  | DDS3623  | Australia | Australia | WA, North Donnelly SF   | <i>Patersonia</i> spp.          | 1994 | AuWe_DDS3623  | - |
| 68  | DDS3634  | Australia | Australia | -                       | <i>Banksia attenuata</i>        | 1994 | AuWe_DDS3634  | - |
| 69  | DDS3661  | Australia | Australia | WA, Donnelly SF         | <i>Patersonia</i> spp.          | 1994 | AuWe_DDS3661  | - |
| 70  | DDS3688  | Australia | Australia | WA, Solai FB            | Forest soil                     | 1995 | AuWe_DDS3688  | - |
| 71  | DDS3690  | Australia | Australia | WA, Solai FB            | Forest soil                     | 1995 | AuWe_DDS3690  | - |
| 72  | DDS3691  | Australia | Australia | WA, Solai FB            | Forest soil                     | 1995 | AuWe_DDS3691  | - |
| 73  | DDS3692  | Australia | Australia | WA, Solai FB            | Forest soil                     | 1995 | AuWe_DDS3692  | - |
| 74  | DDS3693  | Australia | Australia | WA, Solai FB            | Forest soil                     | 1995 | AuWe_DDS3693  | - |
| 75  | DDS3695  | Australia | Australia | WA, Solai FB            | Forest soil                     | 1995 | AuWe_DDS3695  | - |
| 76  | DDS3698  | Australia | Australia | WA, Solai FB            | Forest soil                     | 1995 | AuWe_DDS3698  | - |
| 77  | DDS3701  | Australia | Australia | WA, Yeagarup            | Forest soil                     | 1995 | AuWe_DDS3701  | - |
| 78  | DDS3702  | Australia | Australia | WA, Yeagarup            | Forest soil                     | 1995 | AuWe_DDS3702  | - |
| 79  | DDS3704  | Australia | Australia | WA, Yeagarup            | Forest soil                     | 1995 | AuWe_DDS3704  | - |
| 80  | DDS3706  | Australia | Australia | WA, Warren SF           | Forest soil                     | 1995 | AuWe_DDS3706  | - |
| 81  | DDS3708  | Australia | Australia | WA, Granite Peaks SF    | Forest soil                     | 1995 | AuWe_DDS3708  | - |
| 82  | DDS3715  | Australia | Australia | WA, Mount Frankland NP  | Forest soil                     | 1995 | AuWe_DDS3715  | - |
| 83  | DDS3716  | Australia | Australia | WA, Mount Frankland NP  | Forest soil                     | 1995 | AuWe_DDS3716  | - |
| 84  | DDS3734  | Australia | Australia | WA, Mount Frankland NP  | Forest soil                     | 1995 | AuWe_DDS3734  | - |
| 85  | DDS3749  | Australia | Australia | WA, Warren SF           | Forest soil                     | 1995 | AuWe_DDS3749  | - |
| 86  | DDS3811  | Australia | Australia | WA, North Donnelly SF   | <i>Patersonia</i>               | 1996 | AuWe_DDS3811  | - |
| 87  | SLPA64   | Australia | Australia | VIC, Sugarloaf          | Forest soil                     | 2008 | AuVi_SLPA64   | - |
| 88  | VHA3414  | Australia | Australia | WA, Albany              | Forest soil                     | 1991 | AuWe_VHA3414  | - |
| 89  | VHS10041 | Australia | Australia | WA, Tone SF             | <i>Patersonia</i>               | 2001 | AuWe_VHS10041 | - |
| 90  | VHS12170 | Australia | Australia | WA, Huntley Mine        | <i>Eucalyptus marginata</i>     | 2003 | AuWe_VHS12170 | - |
| 91  | VHS13703 | Australia | Australia | WA, Banksiadale SF      | <i>Eucalyptus marginata</i>     | 2004 | AuWe_VHS13703 | - |
| 92  | VHS13788 | Australia | Australia | WA, Banksiadale SF      | <i>Eucalyptus marginata</i>     | 2004 | AuWe_VHS13788 | - |
| 93  | VHS14231 | Australia | Australia | WA, Warren SF           | <i>Leucopogon verticillatus</i> | 2005 | AuWe_VHS14231 | - |
| 94  | VHS14402 | Australia | Australia | WA, Banksiadale SF      | <i>Eucalyptus marginata</i>     | 2005 | AuWe_VHS14402 | - |
| 95  | VHS14645 | Australia | Australia | WA, Banksiadale SF      | Forest soil                     | 2005 | AuWe_VHS14645 | - |
| 96  | VHS14716 | Australia | Australia | WA, Lake Muir SF        | <i>Patersonia</i> spp.          | 2005 | AuWe_VHS14716 | - |
| 97  | VHS14926 | Australia | Australia | WA, Banksiadale SF      | <i>Eucalyptus marginata</i>     | 2005 | AuWe_VHS14926 | - |
| 98  | VHS14993 | Australia | Australia | -                       | Forest soil                     | 2006 | AuWe_VHS14993 | - |
| 99  | VHS15571 | Australia | Australia | WA, Perth               | <i>Banksia grandis</i>          | 2006 | AuWe_VHS15571 | - |
| 100 | VHS15636 | Australia | Australia | WA, Warren SF           | <i>Patersonia</i> spp.          | 2006 | AuWe_VHS15636 | - |
| 101 | VHS15860 | Australia | Australia | WA, Wungong             | <i>Xanthorrhoea gracilis</i>    | 2006 | AuWe_VHS15860 | - |
| 102 | VHS15901 | Australia | Australia | -                       | Forest soil                     | 2006 | AuWe_VHS15901 | - |
| 103 | VHS15910 | Australia | Australia | WA, Warren SF           | <i>Xanthorrhoea gracilis</i>    | 2006 | AuWe_VHS15910 | - |
| 104 | VHS15913 | Australia | Australia | WA, Lake Muir SF        | Forest soil                     | 2006 | AuWe_VHS15913 | - |
| 105 | VHS16158 | Australia | Australia | WA, Gngara SF           | <i>Banksia menziesii</i>        | 2006 | AuWe_VHS16158 | - |
| 106 | VHS16171 | Australia | Australia | WA, Quindanning         | <i>Patersonia</i> spp.          | 2006 | AuWe_VHS16171 | - |
| 107 | VHS16540 | Australia | Australia | WA, Karnup              | <i>Banksia littoralis</i>       | 2006 | AuWe_VHS16540 | - |
| 108 | VHS16803 | Australia | Australia | WA, Smith Brook         | Forest soil                     | 2007 | AuWe_VHS16803 | - |
| 109 | VHS16810 | Australia | Australia | WA, Smith Brook         | <i>Patersonia</i> spp.          | 2007 | AuWe_VHS16810 | - |
| 110 | VHS16850 | Australia | Australia | WA, Gardner SF          | <i>Patersonia</i> spp.          | 2007 | AuWe_VHS16850 | - |
| 111 | VHS16904 | Australia | Australia | WA, Yallingup           | <i>Patersonia</i> spp.          | 2007 | AuWe_VHS16904 | - |
| 112 | VHS17111 | Australia | Australia | WA, Barlee Brook SF     | <i>Patersonia</i> spp.          | 2007 | AuWe_VHS17111 | - |
| 113 | VHS17241 | Australia | Australia | WA, Wellard             | <i>Stirlingia latifolia</i>     | 2007 | AuWe_VHS17241 | - |
| 114 | VHS18950 | Australia | Australia | -                       | <i>Dryandra formosa</i>         | 2007 | AuWe_VHS18950 | - |
| 115 | VHS19381 | Australia | Australia | WA, Warren SF           | <i>Patersonia</i> spp.          | 2008 | AuWe_VHS19381 | - |
| 116 | VHS19499 | Australia | Australia | WA, Bannister           | <i>Xanthorrhoea gracilis</i>    | 2008 | AuWe_VHS19499 | - |
| 117 | VHS19556 | Australia | Australia | WA, Lake Muir SF        | <i>Patersonia longifolia</i>    | 2008 | AuWe_VHS19556 | - |
| 118 | VHS19557 | Australia | Australia | WA, Lake Muir SF        | <i>Patersonia</i> spp.          | 2008 | AuWe_VHS19557 | - |
| 119 | VHS19558 | Australia | Australia | WA, Boorara SF          | <i>Patersonia longifolia</i>    | 2008 | AuWe_VHS19558 | - |
| 120 | VHS19562 | Australia | Australia | WA, Mount Claremont     | <i>Banksia</i> spp.             | 2008 | AuWe_VHS19562 | - |
| 121 | VHS19629 | Australia | Australia | WA, Warren SF           | Forest soil                     | 2008 | AuWe_VHS19629 | - |
| 122 | VHS19905 | Australia | Australia | WA, Jandakot            | <i>Patersonia</i> spp.          | 2008 | AuWe_VHS19905 | - |
| 123 | VHS21190 | Australia | Australia | WA, Donnelly SF         | <i>Patersonia</i> spp.          | 2009 | AuWe_VHS21190 | - |
| 124 | VHS21191 | Australia | Australia | WA, Donnelly SF         | <i>Patersonia</i> spp.          | 2009 | AuWe_VHS21191 | - |
| 125 | VHS21194 | Australia | Australia | WA, Donnelly SF         | <i>Patersonia</i> spp.          | 2009 | AuWe_VHS21194 | - |
| 126 | VHS21247 | Australia | Australia | WA, Warren SF           | <i>Podocarpus drouynianus</i>   | 2009 | AuWe_VHS21247 | - |
| 127 | VHS21882 | Australia | Australia | WA, Binningup           | <i>Banksia attenuata</i>        | 2009 | AuWe_VHS21882 | - |
| 128 | VHS21883 | Australia | Australia | WA, Binningup           | <i>Banksia attenuata</i>        | 2009 | AuWe_VHS21883 | - |
| 129 | VHS22022 | Australia | Australia | WA, Nilgen NR           | <i>Banksia attenuata</i>        | 2009 | AuWe_VHS22022 | - |
| 130 | VHS22036 | Australia | Australia | WA, Mimegarra           | <i>Banksia attenuata</i>        | 2009 | AuWe_VHS22036 | - |
| 131 | VHS22149 | Australia | Australia | WA, Ellis Creek SF      | <i>Patersonia</i> spp.          | 2009 | AuWe_VHS22149 | - |
| 132 | VHS22151 | Australia | Australia | WA, Ellis Creek SF      | <i>Banksia grandis</i>          | 2009 | AuWe_VHS22151 | - |
| 133 | VHS22154 | Australia | Australia | WA, Ellis Creek SF      | <i>Persoonia longifolia</i>     | 2009 | AuWe_VHS22154 | - |
| 134 | VHS22157 | Australia | Australia | WA, Nannup SF           | <i>Persoonia longifolia</i>     | 2009 | AuWe_VHS22157 | - |
| 135 | VHS22173 | Australia | Australia | WA, Nannup SF           | <i>Patersonia</i> spp.          | 2009 | AuWe_VHS22173 | - |
| 136 | VHS22239 | Australia | Australia | WA, Fitzgerald River NP | <i>Adenanthos velutinus</i>     | 2009 | AuWe_VHS22239 | - |
| 137 | VHS22248 | Australia | Australia | WA, Fitzgerald River NP | <i>Xanthorrhoea platyphylla</i> | 2009 | AuWe_VHS22248 | - |
| 138 | VHS22723 | Australia | Australia | WA, Donnelly SF         | <i>Persoonia longifolia</i>     | 2009 | AuWe_VHS22723 | - |
| 139 | VHS22738 | Australia | Australia | WA, Banyowla            | <i>Hakea undulata</i>           | 2009 | AuWe_VHS22738 | - |
| 140 | VHS22750 | Australia | Australia | WA, Donnelly SF         | <i>Patersonia</i> spp.          | 2009 | AuWe_VHS22750 | - |

|     |           |           |           |                         |                                 |      |                |   |
|-----|-----------|-----------|-----------|-------------------------|---------------------------------|------|----------------|---|
| 141 | VHS22760  | Australia | Australia | WA, North Donnelly SF   | <i>Xanthorrhoea gracilis</i>    | 2010 | AuWe_VHS22760  | - |
| 142 | VHS23189  | Australia | Australia | WA, Dwellingup SF       | <i>Bossiaea aquifolium</i>      | 2010 | AuWe_VHS23189  | - |
| 143 | VHS23193  | Australia | Australia | WA, Dwellingup SF       | <i>Bossiaea aquifolium</i>      | 2010 | AuWe_VHS23193  | - |
| 144 | VHS23294  | Australia | Australia | WA, College Grove       | <i>Banksia attenuata</i>        | 2010 | AuWe_VHS23294  | - |
| 145 | VHS23478  | Australia | Australia | WA, Donnelly SF         | <i>Patersonia</i> spp.          | 2010 | AuWe_VHS23478  | - |
| 146 | VHS23499  | Australia | Australia | WA, Lake Muir SF        | <i>Banksia</i> spp.             | 2010 | AuWe_VHS23499  | - |
| 147 | VHS23601  | Australia | Australia | WA, Southampton         | <i>Patersonia</i> spp.          | 2010 | AuWe_VHS23601  | - |
| 148 | VHS2386   | Australia | Australia | WA, Lake Muir SF        | <i>Podocarpus drouynianus</i>   | 1997 | AuWe_VHS2386   | - |
| 149 | VHS24254  | Australia | Australia | WA, Dwellingup SF       | <i>Bossiaea aquifolium</i>      | 2010 | AuWe_VHS24254  | - |
| 150 | VHS24275  | Australia | Australia | WA, Nannup SF           | <i>Podocarpus drouynianus</i>   | 2011 | AuWe_VHS24275  | - |
| 151 | VHS2431   | Australia | Australia | WA, Warren SF           | <i>Patersonia</i> spp.          | 1997 | AuWe_VHS2431   | - |
| 152 | VHS24384  | Australia | Australia | WA, Cooljarloo          | <i>Xanthorrhoea drummondii</i>  | 2010 | AuWe_VHS24384  | - |
| 153 | VHS24572  | Australia | Australia | WA, Nannup SF           | <i>Banksia grandis</i>          | 2011 | AuWe_VHS24572  | - |
| 154 | VHS24949  | Australia | Australia | WA, Donnelly SF         | <i>Patersonia</i> spp.          | 2011 | AuWe_VHS24949  | - |
| 155 | VHS25109  | Australia | Australia | WA, O'Connor            | <i>Leucopogon</i> spp.          | 2011 | AuWe_VHS25109  | - |
| 156 | VHS25131  | Australia | Australia | WA, Ellis Creek SF      | <i>Patersonia</i> spp.          | 2011 | AuWe_VHS25131  | - |
| 157 | VHS25143  | Australia | Australia | WA, Warren SF           | <i>Leucopogon verticillatus</i> | 2011 | AuWe_VHS25143  | - |
| 158 | VHS25537  | Australia | Australia | WA, Quinns Rock         | Forest soil                     | 2011 | AuWe_VHS25537  | - |
| 159 | VHS25594  | Australia | Australia | WA, Fitzgerald River NP | <i>Banksia speciosa</i>         | 2011 | AuWe_VHS25594  | - |
| 160 | VHS25606  | Australia | Australia | -                       | Forest soil                     | 2011 | AuWe_VHS25606  | - |
| 161 | VHS25642  | Australia | Australia | WA, Torndirrup NP       | <i>Dryandra formosa</i>         | 2011 | AuWe_VHS25642  | - |
| 162 | VHS25826  | Australia | Australia | WA, Dwellingup SF       | <i>Bossiaea aquifolium</i>      | 2011 | AuWe_VHS25826  | - |
| 163 | VHS25842  | Australia | Australia | WA, Dwellingup SF       | <i>Eucalyptus</i> spp.          | 2011 | AuWe_VHS25842  | - |
| 164 | VHS25846  | Australia | Australia | WA, Dwellingup SF       | Forest soil                     | 2011 | AuWe_VHS25846  | - |
| 165 | VHS25850  | Australia | Australia | WA, Dwellingup SF       | <i>Bossiaea aquifolium</i>      | 2011 | AuWe_VHS25850  | - |
| 166 | VHS25851  | Australia | Australia | WA, Dwellingup SF       | <i>Bossiaea aquifolium</i>      | 2011 | AuWe_VHS25851  | - |
| 167 | VHS25852  | Australia | Australia | WA, Dwellingup SF       | <i>Bossiaea aquifolium</i>      | 2011 | AuWe_VHS25852  | - |
| 168 | VHS25880  | Australia | Australia | WA, Dwellingup SF       | <i>Acacia</i> spp.              | 2011 | AuWe_VHS25880  | - |
| 169 | VHS26121  | Australia | Australia | WA, Dwellingup SF       | <i>Acacia</i> spp.              | 2011 | AuWe_VHS26121  | - |
| 170 | VHS26783  | Australia | Australia | WA, Gosnells            | <i>Mangifera indica</i>         | 2012 | AuWe_VHS26783  | - |
| 171 | VHS26910  | Australia | Australia | WA, Fitzgerald River NP | <i>Banksia speciosa</i>         | 2012 | AuWe_VHS26910  | - |
| 172 | VHS26950  | Australia | Australia | WA, Fitzgerald River NP | <i>Lambertia inermis</i>        | 2012 | AuWe_VHS26950  | - |
| 173 | VHS27353  | Australia | Australia | WA, Nannup SF           | <i>Astroloma</i> spp.           | 2012 | AuWe_VHS27353  | - |
| 174 | VHS27354  | Australia | Australia | WA, Nannup SF           | <i>Podocarpus drouynianus</i>   | 2012 | AuWe_VHS27354  | - |
| 175 | VHS27587  | Australia | Australia | WA, Donnelly SF         | <i>Patersonia umbrosa</i>       | 2012 | AuWe_VHS27587  | - |
| 176 | VHS27750  | Australia | Australia | WA, North Donnelly SF   | <i>Podocarpus drouynianus</i>   | 2012 | AuWe_VHS27750  | - |
| 177 | VHS27751  | Australia | Australia | WA, North Donnelly SF   | <i>Persoonia longifolia</i>     | 2012 | AuWe_VHS27751  | - |
| 178 | VHS2777   | Australia | Australia | WA, North Donnelly SF   | <i>Patersonia</i> spp.          | 1997 | AuWe_VHS2777   | - |
| 179 | VHS27966  | Australia | Australia | WA, Witchcliffe         | <i>Macrozamia riedlei</i>       | 2012 | AuWe_VHS27966  | - |
| 180 | VHS28069  | Australia | Australia | WA, Yornup SF           | <i>Patersonia</i> spp.          | 2012 | AuWe_VHS28069  | - |
| 181 | VHS28258  | Australia | Australia | WA, Muchea              | <i>Banksia menziesii</i>        | 2012 | AuWe_VHS28258  | - |
| 182 | VHS28281  | Australia | Australia | WA, Margaret River      | <i>Xanthorrhoea preissii</i>    | 2012 | AuWe_VHS28281  | - |
| 183 | VHS28588  | Australia | Australia | WA, North Donnelly SF   | <i>Banksia seminuda</i>         | 2013 | AuWe_VHS28588  | - |
| 184 | VHS28782  | Australia | Australia | WA, William Bay NP      | Forest soil                     | 2013 | AuWe_VHS28782  | - |
| 185 | VHS28785  | Australia | Australia | WA, William Bay NP      | Forest soil                     | 2013 | AuWe_VHS28785  | - |
| 186 | VHS2884   | Australia | Australia | WA, Hilliger NP         | <i>Patersonia</i> spp.          | 1997 | AuWe_VHS2884   | - |
| 187 | VHS29030  | Australia | Australia | WA, Gardner SF          | <i>Patersonia rudis</i>         | 2013 | AuWe_VHS29030  | - |
| 188 | VHS29031  | Australia | Australia | WA, Gardner SF          | <i>Patersonia rudis</i>         | 2013 | AuWe_VHS29031  | - |
| 189 | VHS29031R | Australia | Australia | WA, Gardner SF          | <i>Patersonia rudis</i>         | 2013 | AuWe_VHS29031R | - |
| 190 | VHS29032  | Australia | Australia | WA, Gardner SF          | <i>Lambertia formosa</i>        | 2013 | AuWe_VHS29032  | - |
| 191 | VHS29125  | Australia | Australia | WA, Malaga              | <i>Banksia attenuata</i>        | 2013 | AuWe_VHS29125  | - |
| 192 | VHS29331  | Australia | Australia | WA, Redgate             | <i>Patersonia occidentalis</i>  | 2013 | AuWe_VHS29331  | - |
| 193 | VHS3465   | Australia | Australia | WA, Margaret River      | Forest soil                     | 2021 | AuWe_VHS3465   | - |
| 194 | VHS3972   | Australia | Australia | WA, Nairn FB            | <i>Leucopogon verticillatus</i> | 2021 | AuWe_VHS3972   | - |
| 195 | VHS4521   | Australia | Australia | WA, Greater Beedelup NP | <i>Persoonia longifolia</i>     | 1998 | AuWe_VHS4521   | - |
| 196 | VHS4564   | Australia | Australia | WA, Collins             | <i>Patersonia</i> spp.          | 1998 | AuWe_VHS4564   | - |
| 197 | VHS4595   | Australia | Australia | WA, Warren SF           | <i>Patersonia</i> spp.          | 1998 | AuWe_VHS4595   | - |
| 198 | VHS4632   | Australia | Australia | WA, Blackwood SF        | <i>Podocarpus drouynianus</i>   | 1998 | AuWe_VHS4632   | - |
| 199 | VHS4773   | Australia | Australia | WA, Greater Beedelup NP | <i>Patersonia</i> spp.          | 1998 | AuWe_VHS4773   | - |
| 200 | VHS4828   | Australia | Australia | WA, Donnelly SF         | <i>Patersonia</i> spp.          | 1998 | AuWe_VHS4828   | - |
| 201 | VHS4975   | Australia | Australia | WA, Nannup SF           | <i>Patersonia</i> spp.          | 1998 | AuWe_VHS4975   | - |
| 202 | VHS4998   | Australia | Australia | WA, Mount Frankland NP  | <i>Patersonia</i> spp.          | 1998 | AuWe_VHS4998   | - |
| 203 | VHS5073   | Australia | Australia | WA, Mount Frankland NP  | <i>Patersonia</i> spp.          | 1998 | AuWe_VHS5073   | - |
| 204 | VHS6072   | Australia | Australia | WA, William Bay NP      | Forest soil                     | 1999 | AuWe_VHS6072   | - |
| 205 | VHS6665   | Australia | Australia | WA, Wilga SF            | <i>Xanthorrhoea preissii</i>    | 1999 | AuWe_VHS6665   | - |
| 206 | VHS6682   | Australia | Australia | WA, Mount Frankland NP  | <i>Patersonia</i> spp.          | 1999 | AuWe_VHS6682   | - |
| 207 | VHS7057   | Australia | Australia | WA, Warren SF           | <i>Persoonia longifolia</i>     | 2000 | AuWe_VHS7057   | - |
| 208 | VHS7371   | Australia | Australia | WA, Jarrahdale SF       | <i>Patersonia</i> spp.          | 2000 | AuWe_VHS7371   | - |
| 209 | VHS7401   | Australia | Australia | WA, Hilliger NP         | <i>Banksia grandis</i>          | 1999 | AuWe_VHS7401   | - |
| 210 | VHS7411   | Australia | Australia | WA, Wiltshire-Butler NP | <i>Patersonia</i> spp.          | 2000 | AuWe_VHS7411   | - |
| 211 | VHS7712   | Australia | Australia | WA, Donnelly SF         | <i>Patersonia</i> spp.          | 2000 | AuWe_VHS7712   | - |
| 212 | VHS7870   | Australia | Australia | WA, Easter NP           | <i>Xanthorrhoea gracilis</i>    | 2000 | AuWe_VHS7870   | - |
| 213 | VHS7971   | Australia | Australia | WA, Easter NP           | <i>Patersonia</i> spp.          | 2000 | AuWe_VHS7971   | - |
| 214 | VHS7981   | Australia | Australia | WA, Easter NP           | <i>Podocarpus drouynianus</i>   | 2000 | AuWe_VHS7981   | - |
| 215 | VHS8108   | Australia | Australia | WA, Armadale            | <i>Leucopogon</i> spp.          | 1998 | AuWe_VHS8108   | - |
| 216 | VHS8127   | Australia | Australia | WA, Donnelly SF         | <i>Patersonia</i> spp.          | 2000 | AuWe_VHS8127   | - |

|     |           |                |               |                            |                                 |           |               |            |
|-----|-----------|----------------|---------------|----------------------------|---------------------------------|-----------|---------------|------------|
| 217 | VHS8179   | Australia      | Australia     | WA, Milyeannup SF          | <i>Patersonia</i> spp.          | 2000      | AuWe_VHS8179  | -          |
| 218 | VHS8320   | Australia      | Australia     | WA, Middlesex              | <i>Patersonia</i> spp.          | 2000      | AuWe_VHS8320  | -          |
| 219 | VHS9672   | Australia      | Australia     | WA, Donnelly SF            | Forest soil                     | 2001      | AuWe_VHS9672  | -          |
| 220 | VHS9718   | Australia      | Australia     | WA, Leeuwin-Naturaliste NP | <i>Banksia grandis</i>          | 2001      | AuWe_VHS9718  | -          |
| 221 | VHS9778   | Australia      | Australia     | WA, Donnelly SF            | <i>Patersonia</i> spp.          | 2001      | AuWe_VHS9778  | -          |
| 222 | SLPA109   | Australia      | Australia     | VIC, Sugarloaf             | Forest soil                     | 2008      | AuVi_SLPA109  | EA01       |
| 223 | SLPA109   | Australia      | Australia     | VIC, Sugarloaf             | Forest soil                     | 2008      | -             | EA01_2     |
| 224 | HAS2297   | Australia      | Australia     | WA, Cooljarloo             | <i>Banksia</i> spp.             | 1996      | AuWe_HAS2297  | HSA2297    |
| 225 | VHS20916  | Australia      | Australia     | WA, Hope Valley            | <i>Banksia attenuata</i>        | 2009      | AuWe_VHS20916 | VHS20916   |
| 226 | VHS20987  | Australia      | Australia     | WA, North Donnelly SF      | <i>Persoonia longifolia</i>     | 2009      | AuWe_VHS20987 | VHS20987   |
| 227 | VHS21205  | Australia      | Australia     | Leeuwin-Naturaliste NP     | <i>Podocarpus drouynianus</i>   | 2009      | AuWe_VHS21205 | VHS21205   |
| 228 | VHS21474  | Australia      | Australia     | WA, Wellington NP          | <i>Banksia grandis</i>          | 2009      | AuWe_VHS21474 | VHS21474   |
| 229 | VHS21692  | Australia      | Australia     | WA, Tamala Park            | <i>Banksia attenuata</i>        | 2009      | AuWe_VHS21692 | VHS21692   |
| 230 | VHS21881  | Australia      | Australia     | WA, Binningup              | <i>Banksia attenuata</i>        | 2009      | AuWe_VHS21881 | VHS21881   |
| 231 | VHS22472  | Australia      | Australia     | WA, Nilgen NR              | <i>Banksia attenuata</i>        | 2009      | AuWe_VHS22472 | VHS22472   |
| 232 | VHS22575  | Australia      | Australia     | WA, Cooljarloo             | <i>Banksia menziesii</i>        | 2009      | -             | VHS22575   |
| 233 | VHS22754  | Australia      | Australia     | WA, North Donnelly SF      | <i>Persoonia longifolia</i>     | 2009      | AuWe_VHS22754 | VHS22754   |
| 234 | VHS8081   | Australia      | Australia     | WA, Greater Hawke NP       | <i>Patersonia</i> spp.          | 2000      | AuWe_VHS8081  | VHS8081    |
| 235 | WAC13202  | Australia      | Australia     | WA, Yalgorup               | <i>Eucalyptus gomphocephala</i> | 2008      | AuWe_WAC13202 | WAC13202   |
| 236 | WAC13203  | Australia      | Australia     | WA, Yalgorup               | <i>Agonis flexuosa</i>          | 2008      | AuWe_WAC13203 | WAC13203   |
| 237 | WAC13205  | Australia      | Australia     | WA, Jarrahdale             | <i>Eucalyptus marginata</i>     | 2008      | AuWe_WAC13205 | WAC13205   |
| 238 | WAC13200  | Australia      | Australia     | WA, Yalgorup               | <i>Eucalyptus gomphocephala</i> | 2008      | AuWe_WAC13200 | WAC13200   |
| 239 | WAC13201  | Australia      | Australia     | WA, Yalgorup               | <i>Eucalyptus marginata</i>     | 2008      | AuWe_WAC13201 | WAC13201   |
| 240 | WAC13201  | Australia      | Australia     | WA, Yalgorup               | <i>Eucalyptus marginata</i>     | 2008      | -             | WAC13201-1 |
| 241 | WAC13201  | Australia      | Australia     | WA, Yalgorup               | <i>Eucalyptus marginata</i>     | 2008      | -             | WAC13201-2 |
| 242 | WAC13204  | Australia      | Australia     | WA, Yalgorup               | <i>Eucalyptus gomphocephala</i> | 2008      | AuWe_WAC13204 | WAC13204   |
| 243 | DDS3700   | Australia      | Australia     | WA, Sutton FB              | Forest soil                     | 1995      | AuWe_DDS3700  | DDS3700    |
| 244 | W1838     | Australia      | Australia     | NSW, Wollemi National Park | <i>Wollemia nobilis</i>         | 2009      | AuWa_W1838    | EA03       |
| 245 | W1839     | Australia      | Australia     | NSW, Wollemi National Park | <i>Wollemia nobilis</i>         | 2009      | AuWa_W1839    | EA04       |
| 246 | W1839     | Australia      | Australia     | NSW, Wollemi National Park | <i>Wollemia nobilis</i>         | 2009      | -             | EA04_6     |
| 247 | HAS1153   | Australia      | Australia     | WA, Eneabba                | <i>Banksia</i> spp.             | 1991      | AuWe_HAS1153  | HSA1153    |
| 248 | VHS15041  | Australia      | Australia     | WA, Banksiadale SF         | <i>Eucalyptus marginata</i>     | 2005      | -             | VHS15041   |
| 249 | VHS15316  | Australia      | Australia     | WA, Donnelly SF            | <i>Podocarpus drouynianus</i>   | 2006      | AuWe_VHS15316 | VHS15316   |
| 250 | VHS16260  | Australia      | Australia     | WA, Gngara SF              | <i>Banksia attenuata</i>        | 2006      | AuWe_VHS16260 | VHS16260   |
| 251 | VHS21011  | Australia      | Australia     | WA, Cape Arid NP           | <i>Xanthorrhoea preissii</i>    | 2009      | AuWe_VHS21011 | VHS21011   |
| 252 | VHS21076  | Australia      | Australia     | WA, Yelverton              | <i>Podocarpus drouynianus</i>   | 2009      | AuWe_VHS21076 | VHS21076   |
| 253 | VHS21416  | Australia      | Australia     | WA, Fitzgerald River NP    | <i>Banksia media</i>            | 2009      | AuWe_VHS21416 | VHS21416   |
| 254 | VHS22131  | Australia      | Australia     | WA, Gracetown              | <i>Xanthorrhoea preissii</i>    | 2009      | AuWe_VHS22131 | VHS22131   |
| 255 | VHS22240  | Australia      | Australia     | WA, Fitzgerald River NP    | <i>Adenanthos velutinus</i>     | 2009      | AuWe_VHS22240 | VHS22240   |
| 256 | VHS22497  | Australia      | Australia     | WA, Malaga                 | <i>Banksia menziesii</i>        | 2009      | AuWe_VHS22497 | VHS22497   |
| 257 | VHS22509  | Australia      | Australia     | WA, Nannup SF              | <i>Patersonia</i> spp.          | 2009      | AuWe_VHS22509 | VHS22509   |
| 258 | VHS22528  | Australia      | Australia     | WA, Nannup SF              | <i>Patersonia</i> spp.          | 2009      | AuWe_VHS22528 | VHS22528   |
| 259 | CI2       | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI2        | -          |
| 260 | CI4       | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI4        | -          |
| 261 | CI8       | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI8        | -          |
| 262 | CI10      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI10       | -          |
| 263 | CI13      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI13       | -          |
| 264 | CI15      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI15       | -          |
| 265 | CI16      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI16       | -          |
| 266 | CI17      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI17       | -          |
| 267 | CI19      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI19       | -          |
| 268 | CI21      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI21       | -          |
| 269 | CI24      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI24       | -          |
| 270 | CI27      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI27       | -          |
| 271 | CI28      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI28       | -          |
| 272 | CI29      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI29       | -          |
| 273 | CI31      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI31       | -          |
| 274 | CI32      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI32       | -          |
| 275 | CI33      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI33       | -          |
| 276 | CI35      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI35       | -          |
| 277 | CI36      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI36       | -          |
| 278 | CI1       | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI1        | CAN01      |
| 279 | CI3       | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI3        | CAN03      |
| 280 | CI5       | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI5        | CAN05      |
| 281 | CI6       | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI6        | CAN06      |
| 282 | CI7       | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI7        | CAN07      |
| 283 | CI9       | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI9        | CAN09      |
| 284 | CI11      | Canary Islands | Spain         | -                          | Forest soil                     | 2012      | Ca_CI11       | CAN11      |
| 328 | BEX2H     | North America  | United States | OR                         | Forest soil                     | 2000-2012 | US_BEX2H      | US01       |
| 329 | BEX3      | North America  | United States | OR                         | Forest soil                     | 2000-2012 | US_BEX3       | US02       |
| 312 | CBS113347 | New Zealand    | New Zealand   | -                          | Forest soil                     | 2000-2012 | NW_CBS113347  | CBS113347  |
| 313 | CBS119108 | New Zealand    | New Zealand   | -                          | Forest soil                     | 2000-2012 | NW_CBS119108  | CBS119108  |
| 295 | CS102     | Europe         | Switzerland   | -                          | <i>Rhododendron Azzuro</i>      | 2010      | EuSw_CS102    | EU02       |
| 296 | CS102     | Europe         | Switzerland   | -                          | <i>Rhododendron Azzuro</i>      | 2010      | -             | EU02-1     |
| 297 | CS102     | Europe         | Switzerland   | -                          | <i>Rhododendron Azzuro</i>      | 2010      | -             | EU02-2     |
| 327 | CS266     | North America  | United States | OR, Multnomah, Gresham     | Water                           | 2010      | US_CS266      | -          |

|     |           |               |                |                                  |  |           |              |          |
|-----|-----------|---------------|----------------|----------------------------------|--|-----------|--------------|----------|
| 332 | CS267     | North America | United States  | OR, Multnomah, Gresham           | <i>Rhododendron</i> spp.                               | 2010      | US_CS267     | US05     |
| 333 | CS268     | North America | United States  | OR, Multnomah, Gresham           | <i>Rhododendron</i> spp.                               | 2010      | -            | US06     |
| 334 | CS269     | North America | United States  | OR, Multnomah, Gresham           | <i>Rhododendron</i> spp.                               | 2010      | US_CS269     | US07     |
| 335 | CS270     | North America | United States  | OR, Multnomah, Gresham           | <i>Rhododendron</i> spp.                               | 2010      | -            | US08     |
| 285 | CS310     | Europe        | Belgium        | -                                | <i>Rhododendron</i> spp.                               | 2006      | EuBe_CS310   | -        |
| 288 | CS315     | Europe        | Belgium        | -                                | <i>Rhododendron</i> spp.                               | 2009      | EuBe_CS315   | EU03     |
| 289 | CS483     | Europe        | Czech Republic | Moravia                          | <i>Rhododendron catawbiense</i><br><i>Grandiflorum</i> | 2000-2012 | -            | EU05     |
| 286 | CS486     | Europe        | Czech Republic | Moravia                          | <i>Alnus glutinosa</i>                                 | 2000-2012 | EuCz_CS486   | -        |
| 290 | CS488     | Europe        | Czech Republic | Moravia                          | <i>Quercus robur</i>                                   | 2000-2012 | -            | EU06     |
| 291 | CS501     | Europe        | France         | Corsica                          | <i>Antirrhinum majus</i>                               | 2000-2012 | -            | EU07     |
| 330 | EE9488517 | North America | United States  | -                                | Forest soil  | 2000-2012 | US_EE9488517 | US03     |
| 331 | EE9488531 | North America | United States  | -                                | Forest soil  | 2000-2012 | US_EE9488531 | US04     |
| 314 | NZ1072    | New Zealand   | New Zealand    | WN, Bolton Street Cemeter        | <i>Elaeocarpus dentatus</i>                            | 2000-2012 | NW_NZ1072    | NZ1072   |
| 315 | NZ11702   | New Zealand   | New Zealand    | GB, Ormsby                       | <i>Pinus radiata</i>                                   | 2000-2012 | NW_NZ11702   | NZ011702 |
| 304 | NZ11703   | New Zealand   | New Zealand    | -                                | <i>Cytisus scoparius</i>                               | 2000-2012 | NW_NZ11703   | -        |
| 305 | NZ117A    | New Zealand   | New Zealand    | TO, Rotoaira Forest              | <i>Malus</i> spp.                                      | 2000-2012 | NW_NZ117A    | -        |
| 316 | NZ2750    | New Zealand   | New Zealand    | AK, Auckland, Kumeu, Riverhead   | Forest soil  | 2000-2012 | NW_NZ2750    | NZ2750   |
| 317 | NZ2751    | New Zealand   | New Zealand    | AK, Auckland                     | <i>Araucaria heterophylla</i>                          | 2000-2012 | NW_NZ2751    | NZ2751   |
| 306 | NZ2815    | New Zealand   | New Zealand    | AK, Northshore                   | <i>Araucaria heterophylla</i>                          | 2000-2012 | NW_NZ2815    | -        |
| 307 | NZ2816    | New Zealand   | New Zealand    | AK, Cornwall Park                | <i>Araucaria heterophylla</i>                          | 2000-2012 | NW_NZ2816    | -        |
| 308 | NZ3061    | New Zealand   | New Zealand    | BP, Kinleith Forest              | Forest soil  | 2000-2012 | NW_NZ3061    | -        |
| 309 | NZ3070    | New Zealand   | New Zealand    | BP, Kinleith Forest              | Forest soil  | 2000-2012 | NW_NZ3070    | -        |
| 318 | NZ3376    | New Zealand   | New Zealand    | WO, Hamilton                     | Forest soil  | 2000-2012 | NW_NZ3376    | NZ3376   |
| 319 | NZ3377    | New Zealand   | New Zealand    | AK, Southdown                    | <i>Vitex lucens</i>                                    | 2000-2012 | NW_NZ3377    | NZ3377   |
| 320 | NZ3378    | New Zealand   | New Zealand    | AK, Penrose                      | <i>Idesia polycarpa</i>                                | 2000-2012 | NW_NZ3378    | NZ3378   |
| 321 | NZ3448    | New Zealand   | New Zealand    | AK, Auckland                     | <i>Metrosideros kermadecensis</i>                      | 2000-2012 | NW_NZ3448    | NZ3448   |
| 322 | NZ3448    | New Zealand   | New Zealand    | AK, Auckland                     | <i>Metrosideros kermadecensis</i>                      | 2000-2012 | -            | NZ3448-2 |
| 323 | NZ3448    | New Zealand   | New Zealand    | AK, Auckland                     | <i>Metrosideros kermadecensis</i>                      | 2000-2012 | -            | NZ3448-3 |
| 324 | NZ3448    | New Zealand   | New Zealand    | AK, Auckland                     | <i>Metrosideros kermadecensis</i>                      | 2000-2012 | -            | NZ3448-4 |
| 325 | NZ3600    | New Zealand   | New Zealand    | AK, Auckland, Albert Park        | <i>Pinus radiata</i>                                   | 2000-2012 | NW_NZ3600    | NZ3600   |
| 310 | NZ571     | New Zealand   | New Zealand    | NN, Nelson                       | <i>Cordyline australis</i>                             | 2000-2012 | NW_NZ571     | -        |
| 326 | NZ951     | New Zealand   | New Zealand    | AK, Onehunga, Waikaraka Cemetery | <i>Pittosporum crassifolium</i>                        | 2000-2012 | NW_NZ951     | NZ0951   |
| 311 | NZ965     | New Zealand   | New Zealand    | ND, Onepu                        | <i>Pinus radiata</i>                                   | 2000-2012 | NW_NZ965     | -        |
| 292 | PG217     | Europe        | Spain          | -                                | <i>Genista</i> spp.                                    | 2007      | EuSp_PG217   | EU08     |
| 298 | PG270     | Europe        | Spain          | -                                | Forest soil  | 2000-2012 | EuSp_PG270   | EU09     |
| 299 | PG703     | Europe        | Spain          | -                                | Forest soil  | 2000-2012 | EuSp_PG703   | EU10     |
| 293 | PG827     | Europe        | Spain          | -                                | <i>Pittosporum</i> spp.                                | 2009      | EuSp_PG827   | EU11     |
| 287 | TAVIRA1   | Europe        | Portugal       | -                                | Forest soil  | 2000-2012 | EuPo_TAVIRA  | -        |
| 294 | TAVIRA2   | Europe        | Portugal       | -                                | Forest soil  | 2000-2012 | -            | EU01     |
| 300 | UK104109  | Europe        | United Kingdom | Surrey, RHS Gardens              | <i>Lyonothamnus</i> spp.                               | 2000-2012 | UK_UK104109  | -        |
| 301 | UK226     | Europe        | United Kingdom | Surrey, RHS Gardens              | <i>Hebe</i> spp.                                       | 2000-2012 | UK_UK226     | EU13     |
| 302 | UK46329   | Europe        | United Kingdom | Surrey, RHS Gardens              | <i>Lyonothamnus</i> spp.                               | 2012      | UK_UK46329   | EU14     |
| 303 | UK46329   | Europe        | United Kingdom | Surrey, RHS Gardens              | <i>Lyonothamnus</i> spp.                               | 2012      | -            | EU14_2   |

Figure S1. Deviation from Hardy-Weinberg equilibrium in 10 SSR loci in six subpopulation.

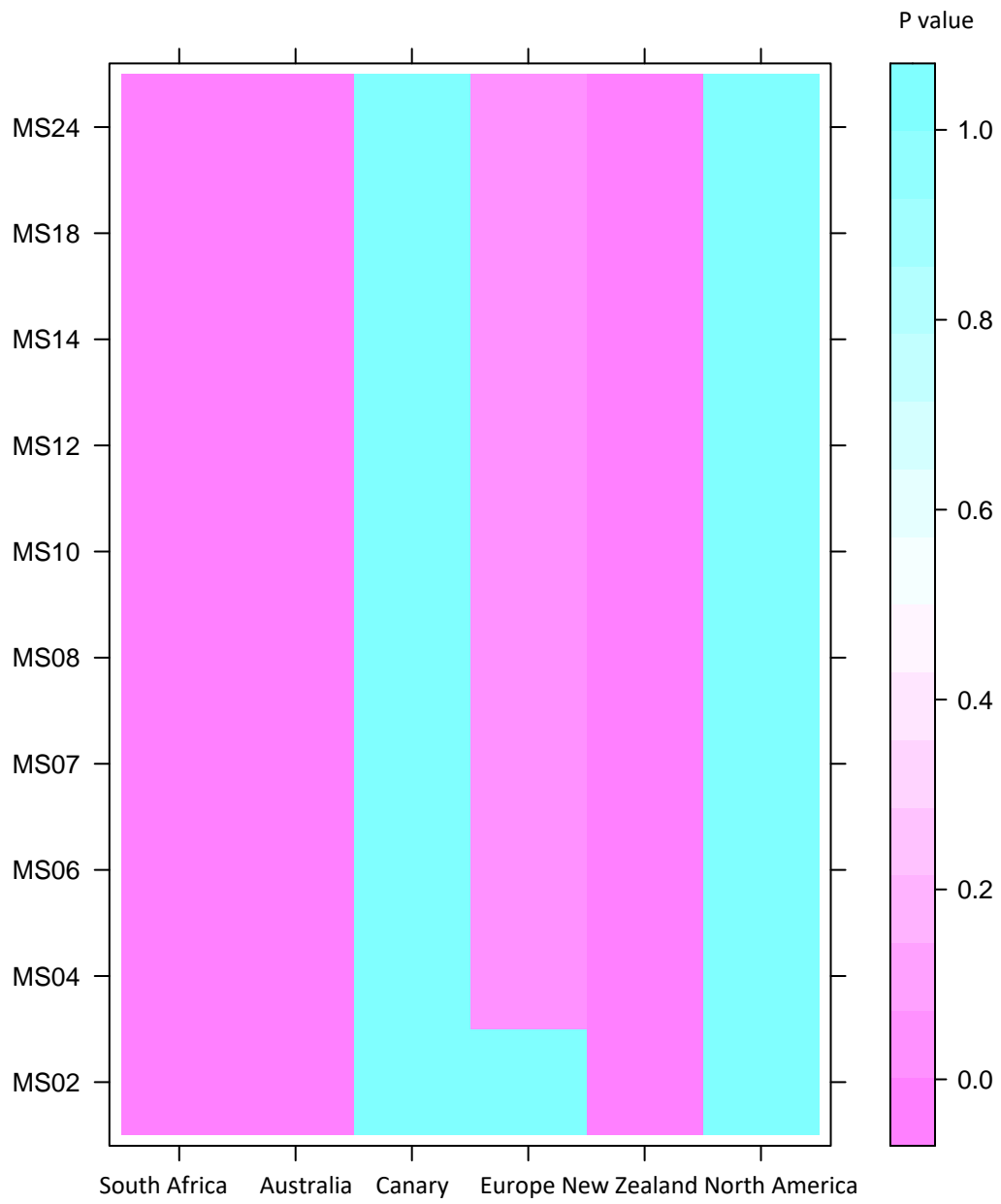
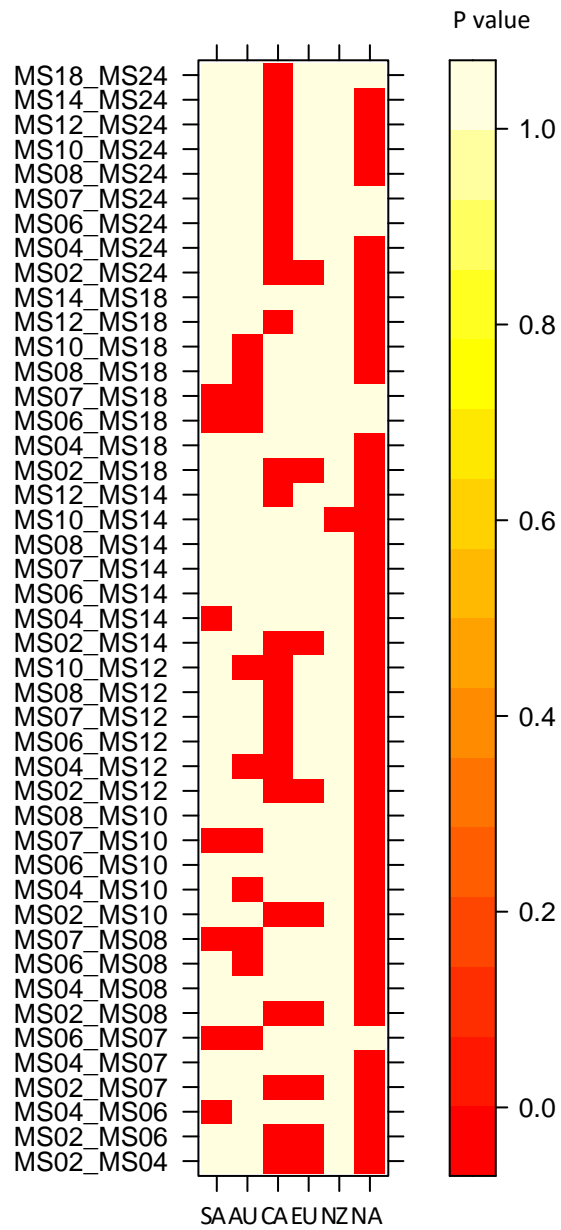


Figure S2. Pair-wise linkage disequilibrium among 10 SSR loci and in six subpopulations





## Notes 1. Details on the Approximate Bayesian Computational analysis

Six different scenarios of the demographic history for three subpopulations graphically described in Figure S4. In a first step in order to define likelihood scenario of demographic events in three the most genetically diverse subpopulations, i.e. South African, Australian and New Zealand we simulated  $6 \times 10^6$  pseudo-observed datasets (PODs) under uniform distribution of the parameters in a broad ranges: 2-1000 of effective population sizes for the initially introduced subpopulations (NZb, AUb or Sab) and 10-10000 for the sampled in  $t_0$  subpopulations, with conditions that establishing (indicated with “b”) subpopulations smaller by effective population size than a source and resulted subpopulation, e.g.  $AUb < AU$ ,  $AUb < SA$ , and  $t_2 > t_1$  in range 10-10000 generations and  $\delta b$  lag of establishing subpopulation from 1-10000. In a second step we conducted computations for all six geographic subpopulations considering results of the first step for assuming likelihood competing scenario as graphically described in Figure S6. We used identical parameters and conditions in the first step for simulating PODs and in addition we set range of admixture  $r_1$  from 0.001 to 0.999. In both steps, for each simulation, a value for each parameter was drawn from prior distribution and performed coalescent simulations with the same number of alleles and loci per population as in the observed dataset. A set of 15 summary statistics describing within and among population genetic diversity were calculated for each POD and the observed data. Population specific statistics included mean number of alleles in population (NAL); allele size variance (VAR). Between population statistics included  $F_{ST}$ , mean variance of the absolute allelic size (V2P) and mean number of alleles (NAL). We used for simulation generalized stepwise-mutation model and default parameters of the DIYABC v.2.1.0.

The posterior probabilities of each competing scenario were estimated using a logistic regression on the 1000 of closest to the observed dataset of  $6 \times 10^6$  simulated datasets. The best-fitting scenario was selected based on the highest posterior probability with a non-overlapping 95% confidence interval. We evaluated the ability of the ABC analysis to discriminate between the competing scenarios by analyzing subset of 500 of closest to observed simulated data sets. Therefore, we estimated the Type-I error rate as the proportion of occurrences the best-supported scenario did not show the highest posterior probability among the competing scenarios and we estimated the Type-II error rate, by calculating the mean proportion of occurrences in which the best-supported model was incorrectly supported instead of selected for simulation one of the competing scenario.

For the best supported scenario the posterior probability distribution of time and demographic parameters (see Table S3) were estimated, after a logit transformation, by local linear regression on the 1% of simulations closest to the observed data. Finally, for model checking we simulated 10000 PODs from the posterior under the best supported scenario in order to evaluate whether this model could successfully reproduce the observed data.

Figure S4. Six scenario of the demographic events assumed for the first step of ABC evaluation. Time is not scaled on the schemes. Supported scenario marked with orange rectangle.

Sampled subpopulations: NZ - New Zealand, SA - South Africa, AU - Australia; those abbreviations with additional "b"- introduced and establishing subpopulations with limited effective population sizes; t - nominal time of demographic event; t-db- nominal time of establishing.

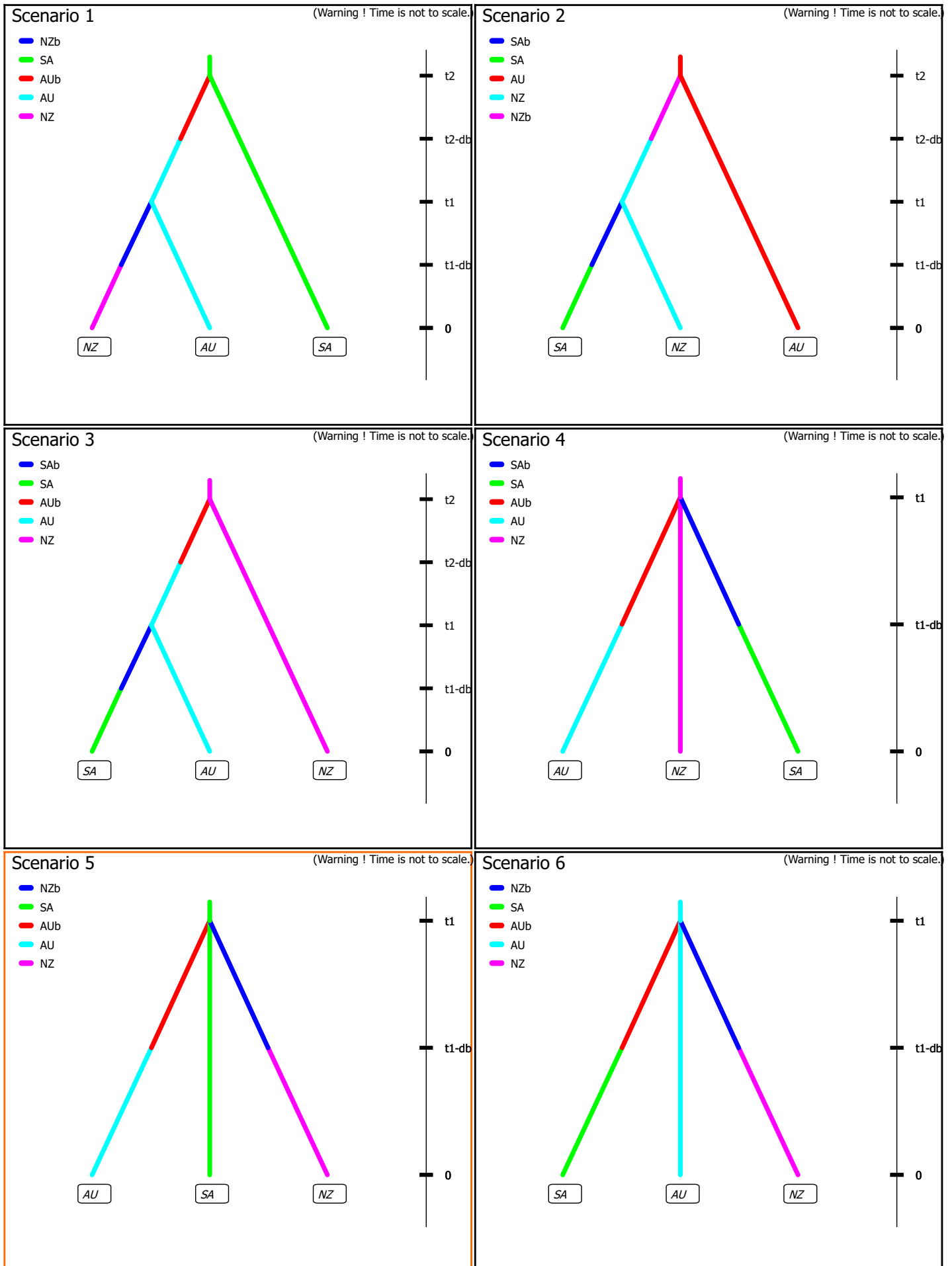
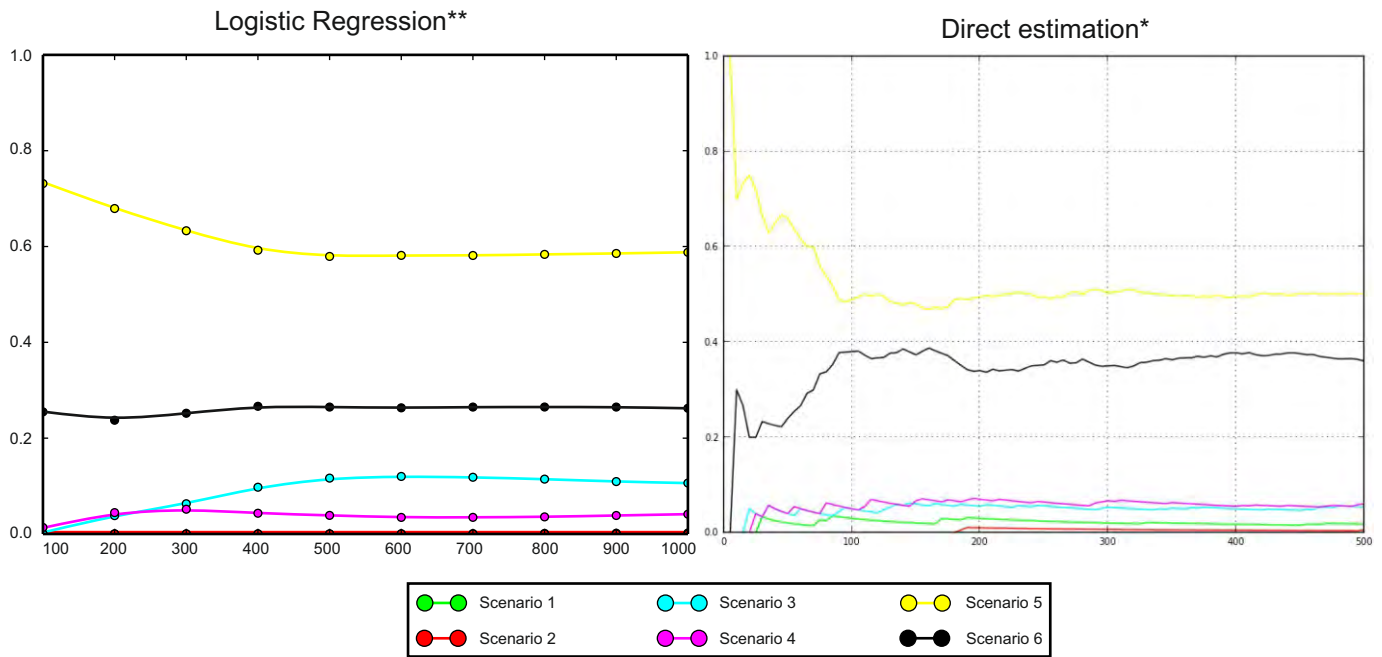


Figure S5. Figure S5. Mean posterior probabilities of the competing models for ABC analysis of the first step.



\* Posterior probabilities inferred directly from summary statistics of the 500 closest to observed of  $6 \times 10^6$  simulated datasets;

\*\* Posterior probabilities inferred from linear discriminants of the summary statistics inferred from 1000 closest to observed of  $6 \times 10^6$  simulated datasets.

Figure S6. Six scenario of the demographic events assumed for the second step of ABC evaluation. Time is not scaled on the schemes. Supported scenario marked with orange rectangle.

Sampled subpopulations: NZ - New Zealand, SA - South Africa, AU - Australia; CA- Canary Islands; US - North America; EU - Europe; those abbreviations with additional "b"- introduced and establishing subpopulations with limited effective population sizes; t - nominal time of demographic event; t-db- nominal time of establishing.

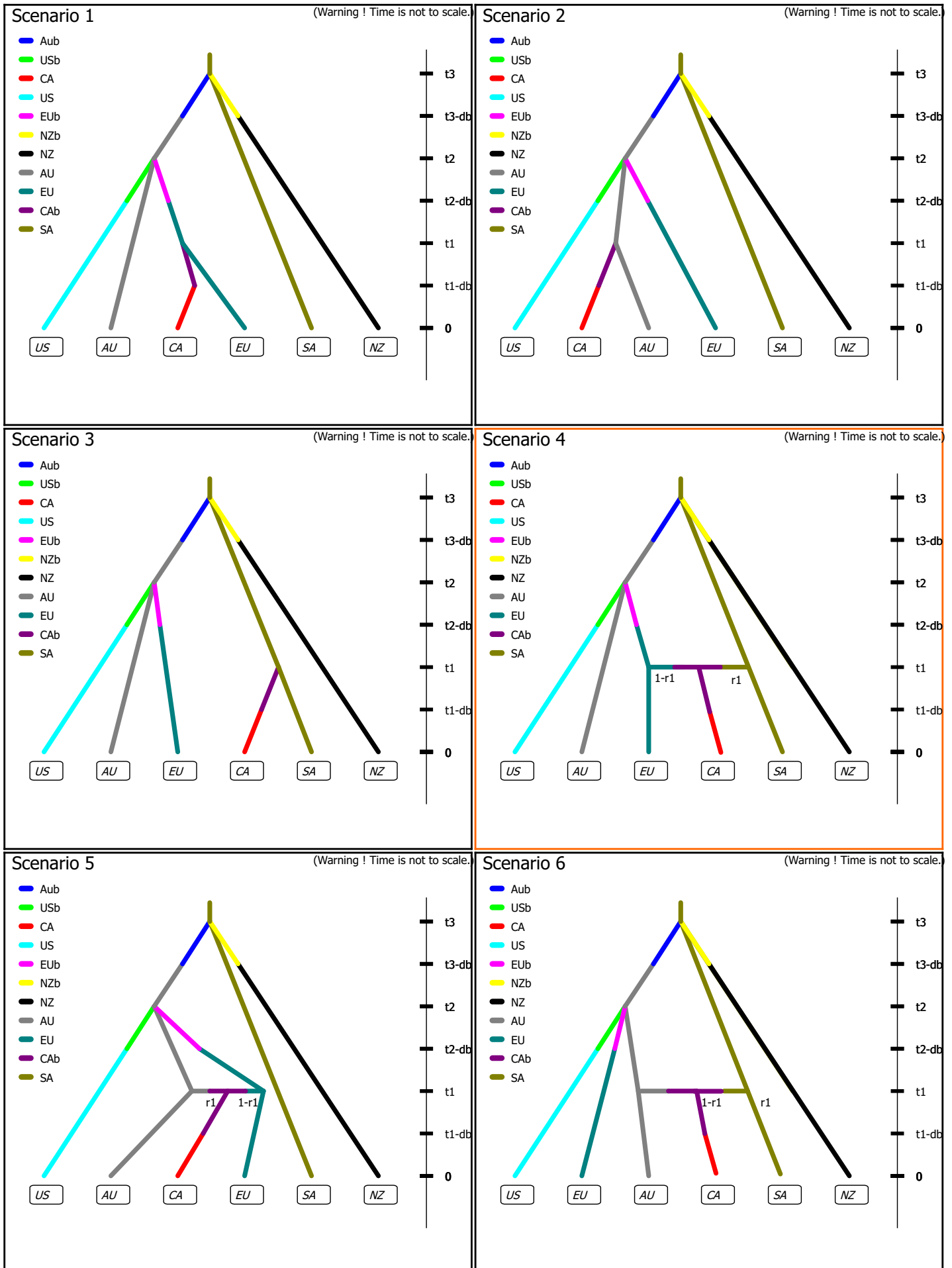
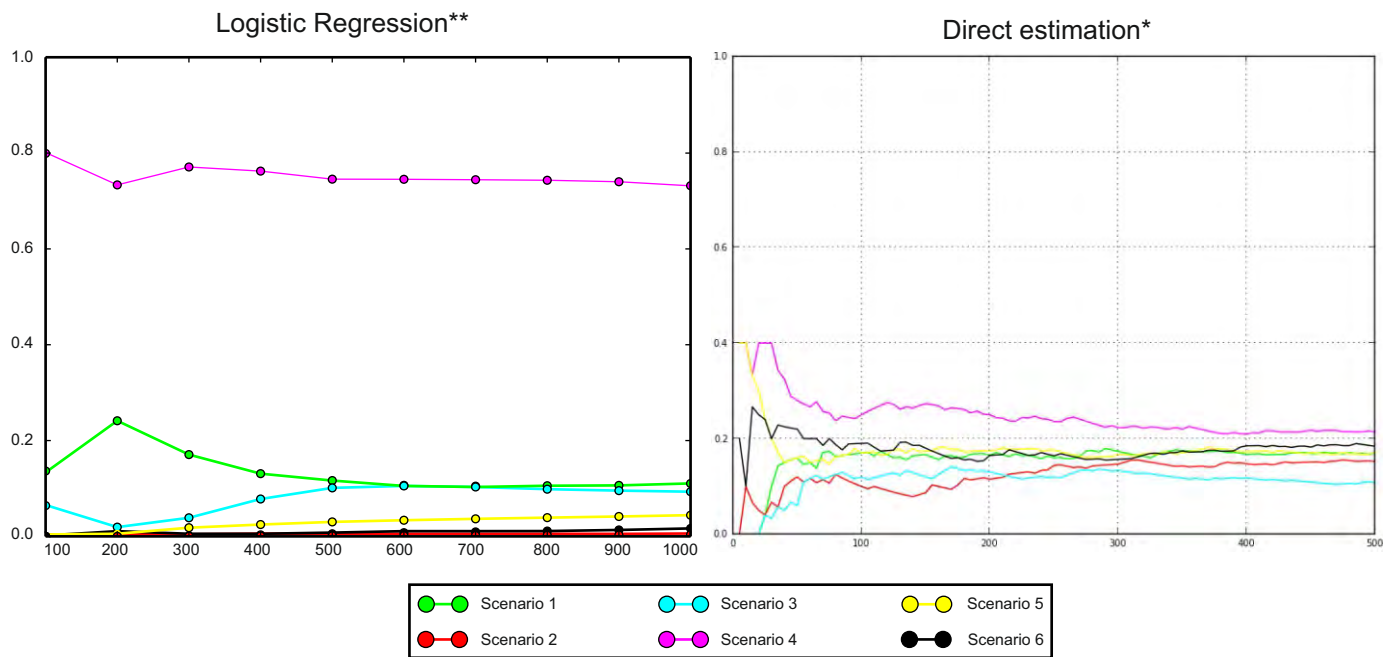


Figure S7. Mean posterior probabilities of the competing models for ABC analysis of the second step.



\* Posterior probabilities inferred directly from summary statistics of the 500 closest to observed of  $6 \times 10^6$  simulated data sets;

\*\* Posterior probabilities inferred from linear discriminants of the summary statistics inferred from 1000 closest to observed of  $10^6$  simulated datasets.

Table S2. Mean posterior probabilities of the competing models for ABC analysis inferred from the closest to observed of  $6 \times 10^6$  simulated datasets.

| Post. prob. 0.95 CI | S1        | S2        | S3        | S4        | S5        | S6        | I type error | II type error |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|---------------|
| First step          |           |           |           |           |           |           |              |               |
| *Direct             | 0.02±0.01 | 0.01±0.00 | 0.05±0.01 | 0.06±0.01 | 0.51±0.05 | 0.35±0.04 | 0.20         | 0.06          |
| **LDA               | 0.00±0.00 | 0.00±0.00 | 0.09±0.04 | 0.04±0.01 | 0.61±0.05 | 0.26±0.01 | 0.21         | 0.05          |
| Second step         |           |           |           |           |           |           |              |               |
| *Direct             | 0.17±0.01 | 0.13±0.02 | 0.11±0.02 | 0.24±0.02 | 0.17±0    | 0.18±0.02 | 0.40         | 0.06          |
| **LDA               | 0.13±0.04 | 0.00±0.00 | 0.08±0.03 | 0.75±0.02 | 0.03±0.02 | 0.01±0.01 | 0.16         | 0.04          |

Table S3. Model checking of the likelihood scenario for ABC analysis

| First step    |            |           | Second step   |            |           |
|---------------|------------|-----------|---------------|------------|-----------|
| Summary stat. | Obs. value | Simulated | Summary stat. | Obs. value | Simulated |
| HET_1_1       | 0.6006     | 0.875     | HET_1_1       | 0.60       | 0.63      |
| HET_1_2       | 0.5574     | 0.7905    | HET_1_2       | 0.56       | 0.56      |
| HET_1_3       | 0.513      | 0.541     | HET_1_3       | 0.37       | 0.11      |
| MGW_1_1       | 0.7385     | 0.139     | HET_1_4       | 0.43       | 0.26      |
| MGW_1_2       | 0.7328     | 0.12      | HET_1_5       | 0.51       | 0.47      |
| MGW_1_3       | 0.7872     | 0.3075    | HET_1_6       | 0.29       | 0.05      |
| H2P_1_1&2     | 0.5895     | 0.765     | MGW_1_1       | 0.74       | 0.11      |
| H2P_1_1&3     | 0.6148     | 0.816     | MGW_1_2       | 0.73       | 0.11      |
| H2P_1_2&3     | 0.5814     | 0.7645    | MGW_1_3       | 0.81       | 0.81      |
| LIK_1_1&2     | 1.24       | 0.504     | MGW_1_4       | 0.91       | 0.94      |
| LIK_1_1&3     | 1.472      | 0.8165    | MGW_1_5       | 0.79       | 0.40      |
| LIK_1_2&1     | 1.0828     | 0.401     | MGW_1_6       | 0.73       | 0.55      |
| LIK_1_2&3     | 1.3821     | 0.752     | H2P_1_1&2     | 0.59       | 0.53      |
| LIK_1_3&1     | 1.3182     | 0.638     | H2P_1_1&3     | 0.59       | 0.56      |
| LIK_1_3&2     | 1.4672     | 0.6885    | H2P_1_1&4     | 0.59       | 0.52      |
| DAS_1_1&2     | 0.3883     | 0.36      | H2P_1_1&5     | 0.61       | 0.62      |
| DAS_1_1&3     | 0.3453     | 0.2215    | H2P_1_1&6     | 0.60       | 0.57      |
| DAS_1_2&3     | 0.3718     | 0.306     | H2P_1_2&3     | 0.56       | 0.54      |
| DM2_1_1&2     | 0.1571     | 0.126     | H2P_1_2&4     | 0.55       | 0.51      |
| DM2_1_1&3     | 0.3059     | 0.312     | H2P_1_2&5     | 0.58       | 0.57      |
| DM2_1_2&3     | 0.3019     | 0.2775    | H2P_1_2&6     | 0.55       | 0.52      |
| -             | -          | -         | H2P_1_3&4     | 0.43       | 0.21      |
| -             | -          | -         | H2P_1_3&5     | 0.55       | 0.54      |
| -             | -          | -         | H2P_1_3&6     | 0.43       | 0.13      |
| -             | -          | -         | H2P_1_4&5     | 0.56       | 0.49      |
| -             | -          | -         | H2P_1_4&6     | 0.40       | 0.11      |
| -             | -          | -         | H2P_1_5&6     | 0.54       | 0.48      |
| -             | -          | -         | LIK_1_1&2     | 1.24       | 0.47      |
| -             | -          | -         | LIK_1_1&3     | 1.13       | 0.35      |
| -             | -          | -         | LIK_1_1&4     | 1.29       | 0.48      |
| -             | -          | -         | LIK_1_1&5     | 1.47       | 0.65      |

|   |   |   |           |      |      |
|---|---|---|-----------|------|------|
| - | - | - | LIK_1_1&6 | 1.28 | 0.47 |
| - | - | - | LIK_1_2&1 | 1.08 | 0.40 |
| - | - | - | LIK_1_2&3 | 1.17 | 0.53 |
| - | - | - | LIK_1_2&4 | 1.04 | 0.45 |
| - | - | - | LIK_1_2&5 | 1.38 | 0.57 |
| - | - | - | LIK_1_2&6 | 1.03 | 0.40 |
| - | - | - | LIK_1_3&1 | 0.85 | 0.18 |
| - | - | - | LIK_1_3&2 | 0.88 | 0.28 |
| - | - | - | LIK_1_3&4 | 0.84 | 0.32 |
| - | - | - | LIK_1_3&5 | 1.59 | 0.70 |
| - | - | - | LIK_1_3&6 | 1.11 | 0.45 |
| - | - | - | LIK_1_4&1 | 0.98 | 0.26 |
| - | - | - | LIK_1_4&2 | 0.85 | 0.33 |
| - | - | - | LIK_1_4&3 | 0.88 | 0.32 |
| - | - | - | LIK_1_4&5 | 1.43 | 0.61 |
| - | - | - | LIK_1_4&6 | 0.76 | 0.10 |
| - | - | - | LIK_1_5&1 | 1.32 | 0.67 |
| - | - | - | LIK_1_5&2 | 1.47 | 0.67 |
| - | - | - | LIK_1_5&3 | 1.57 | 0.76 |
| - | - | - | LIK_1_5&4 | 1.31 | 0.50 |
| - | - | - | LIK_1_5&6 | 1.42 | 0.64 |
| - | - | - | LIK_1_6&1 | 0.98 | 0.29 |
| - | - | - | LIK_1_6&2 | 0.73 | 0.19 |
| - | - | - | LIK_1_6&3 | 1.12 | 0.47 |
| - | - | - | LIK_1_6&4 | 0.58 | 0.05 |
| - | - | - | LIK_1_6&5 | 1.37 | 0.56 |
| - | - | - | DAS_1_1&2 | 0.39 | 0.53 |
| - | - | - | DAS_1_1&3 | 0.45 | 0.71 |
| - | - | - | DAS_1_1&4 | 0.41 | 0.62 |
| - | - | - | DAS_1_1&5 | 0.35 | 0.36 |
| - | - | - | DAS_1_1&6 | 0.41 | 0.64 |
| - | - | - | DAS_1_2&3 | 0.45 | 0.64 |
| - | - | - | DAS_1_2&4 | 0.48 | 0.69 |
| - | - | - | DAS_1_2&5 | 0.37 | 0.46 |
| - | - | - | DAS_1_2&6 | 0.51 | 0.79 |
| - | - | - | DAS_1_3&4 | 0.56 | 0.82 |
| - | - | - | DAS_1_3&5 | 0.31 | 0.27 |
| - | - | - | DAS_1_3&6 | 0.49 | 0.75 |
| - | - | - | DAS_1_4&5 | 0.36 | 0.43 |
| - | - | - | DAS_1_4&6 | 0.61 | 0.93 |
| - | - | - | DAS_1_5&6 | 0.37 | 0.44 |
| - | - | - | DM2_1_1&2 | 0.16 | 0.14 |
| - | - | - | DM2_1_1&3 | 0.54 | 0.36 |
| - | - | - | DM2_1_1&4 | 0.42 | 0.30 |
| - | - | - | DM2_1_1&5 | 0.31 | 0.27 |
| - | - | - | DM2_1_1&6 | 0.53 | 0.29 |
| - | - | - | DM2_1_2&3 | 0.51 | 0.42 |
| - | - | - | DM2_1_2&4 | 0.27 | 0.37 |
| - | - | - | DM2_1_2&5 | 0.30 | 0.24 |
| - | - | - | DM2_1_2&6 | 0.29 | 0.28 |

|   |   |   |           |      |      |
|---|---|---|-----------|------|------|
| - | - | - | DM2_1_3&4 | 0.18 | 0.12 |
| - | - | - | DM2_1_3&5 | 0.84 | 0.43 |
| - | - | - | DM2_1_3&6 | 0.58 | 0.30 |
| - | - | - | DM2_1_4&5 | 0.72 | 0.40 |
| - | - | - | DM2_1_4&6 | 0.18 | 0.08 |
| - | - | - | DM2_1_5&6 | 0.76 | 0.37 |

\*, \*\*, \*\*\* - corresponding to significant to tail-area probabilities (p-values) < 0.05, < 0.01 and <0.001 respectively. Abbreviations for the summary statistics are as follows: mean number of alleles in subpopulation (NAL); mean expected heterozygosity in population (HET); mean size variance (VAR); mean Garcia-Williamson index (MGW); mean number of alleles pooling samples from subpopulations (N2P); mean expected heterozygosity pooling samples from populations (H2P); mean variance of the absolute allelic size pooling samples from populations (V2P);  $F_{ST}$  between 2 samples (FST); mean individual assignment likelihoods of population i assigned to population j (LIK); shared allele distance between populations (DAS);  $d_{\mu 2}$  distance (DM2).

Table S4. Parameter estimation for the likelihood scenario of the second step in natural units

| Parameters | mean    | median  | mode    | Q 2.5   | Q 5.0   | Q 25    | Q 75    | Q 95    | Q 97.5  |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| SA         | 3750.00 | 3520.00 | 3520.00 | 845.00  | 1160.00 | 2370.00 | 4730.00 | 7320.00 | 8460.00 |
| AU         | 6200.00 | 6270.00 | 6580.00 | 2420.00 | 2760.00 | 4790.00 | 7700.00 | 9440.00 | 9630.00 |
| CA         | 5430.00 | 5480.00 | 7870.00 | 901.00  | 1360.00 | 3180.00 | 7640.00 | 9540.00 | 9740.00 |
| EU         | 4070.00 | 3450.00 | 2810.00 | 792.00  | 1010.00 | 2110.00 | 5750.00 | 8820.00 | 9300.00 |
| NZ         | 5430.00 | 5260.00 | 3860.00 | 1730.00 | 2210.00 | 3800.00 | 6990.00 | 9190.00 | 9540.00 |
| US         | 6320.00 | 6640.00 | 8620.00 | 1570.00 | 2120.00 | 4480.00 | 8350.00 | 9660.00 | 9840.00 |
| t1         | 124.00  | 73.70   | 24.90   | 14.60   | 17.00   | 36.00   | 143.00  | 385.00  | 517.00  |
| db         | 247.00  | 91.30   | 15.70   | 6.06    | 11.70   | 42.10   | 215.00  | 841.00  | 1390.00 |
| CAb        | 548.00  | 565.00  | 577.00  | 74.10   | 131.00  | 339.00  | 756.00  | 938.00  | 971.00  |
| r1         | 0.26    | 0.21    | 0.17    | 0.02    | 0.04    | 0.11    | 0.36    | 0.70    | 0.82    |
| t2         | 392.00  | 271.00  | 86.10   | 47.20   | 58.10   | 146.00  | 492.00  | 1060.00 | 1340.00 |
| USb        | 782.00  | 851.00  | 989.00  | 176.00  | 296.00  | 686.00  | 948.00  | 992.00  | 996.00  |
| EUb        | 673.00  | 734.00  | 978.00  | 124.00  | 182.00  | 497.00  | 884.00  | 982.00  | 991.00  |
| t3         | 854.00  | 450.00  | 184.00  | 75.40   | 101.00  | 234.00  | 868.00  | 3140.00 | 4580.00 |
| Aub        | 594.00  | 625.00  | 875.00  | 54.00   | 105.00  | 374.00  | 843.00  | 972.00  | 990.00  |
| Nzb        | 487.00  | 467.00  | 171.00  | 43.70   | 75.10   | 244.00  | 714.00  | 930.00  | 966.00  |

\* - effective population size is provided in term of diploid individuals; \*\* - time of the event are provided in generation before present. Qx: x % quantile.

Table S5. Statistical results of the MASCOT analysis

| Summary Statistic                                 | mean      | stdErr of mean | stdev    | variance | median    | value range              | geometric mean | 95% HPD interval         | auto-correlation time | effective sample | number of samples |
|---|-----------|----------------|----------|----------|-----------|--------------------------|----------------|--------------------------|-----------------------|------------------|-------------------|
| posterior   | -5657.595 | 0.2766         | 10.4727  | 109.6779 | -5657.089 | [-5701.0725; -5613.5212] | n/a            | [-5679.0065; -5638.3373] | 12562.3774            | 1433             | 9001              |
| likelihood  | -5678.789 | 0.3316         | 7.889    | 62.236   | -5678.477 | [-5716.7087; -5653.6365] | n/a            | [-5694.1748; -5663.462]  | 31811.8464            | 565.9            | 9001              |
| prior   | 21.1941   | 0.4103         | 9.4267   | 88.8634  | 21.4762   | [-17.3795; 55.5786]      | n/a            | [2.9204; 39.5981]        | 34108.0731            | 527.8            | 9001              |
| treeLikelihood.ASF                                | -348.4671 | 0.5005         | 5.9135   | 34.9691  | -347.9381 | [-369.1717; -332.5306]   | n/a            | [-357.7008; -336.0696]   | 1.29E+05              | 139.6            | 9001              |
| treeLikelihood.COI                                | -576.5385 | 0.0947         | 2.9025   | 8.4244   | -576.3543 | [-591.5371; -567.0102]   | n/a            | [-582.5733; -571.3437]   | 19177.1382            | 938.7            | 9001              |
| treeLikelihood.ENOLASE                            | -1771.192 | 0.9219         | 9.3033   | 86.551   | -1772.576 | [-1801.5195; -1747.0863] | n/a            | [-1787.1689; -1754.7433] | 1.77E+05              | 101.8            | 9001              |
| treeLikelihood.HSP90                              | -1599.417 | 0.9851         | 8.7835   | 77.1496  | -1595.888 | [-1626.3787; -1583.0736] | n/a            | [-1613.5203; -1587.1059] | 2.26E+05              | 79.5             | 9001              |
| treeLikelihood.NADHI                              | -1383.174 | 0.5157         | 6.2071   | 38.5275  | -1383.666 | [-1407.2072; -1362.4585] | n/a            | [-1394.4965; -1370.5127] | 1.24E+05              | 144.8            | 9001              |
| TreeHeight.t:ASF                                  | 3.89E-03  | 6.25E-06       | 5.20E-04 | 2.71E-07 | 3.85E-03  | [2.2499E-3; 6.7559E-3]   | 3.86E-03       | [2.9578E-3; 4.9571E-3]   | 2595.2235             | 6936.6           | 9001              |
| kappa.s:COX                                       | 16.671    | 0.2955         | 9.9872   | 99.7437  | 14.6351   | [2.4976; 125.1793]       | 14.6255        | [4.508; 34.1416]         | 15757.7349            | 1142.4           | 9001              |
| kappa.s:NADH                                      | 7.6195    | 0.0751         | 2.9614   | 8.7699   | 7.0671    | [2.0675; 32.9926]        | 7.1248         | [2.931; 13.3633]         | 11566.6179            | 1556.4           | 9001              |
| mutationRate.s:ASF                                | 1.0571    | 6.67E-03       | 0.3644   | 0.1328   | 0.9988    | [0.2404; 3.0826]         | 0.9986         | [0.4194; 1.7718]         | 6027.3509             | 2986.7           | 9001              |
| mutationRate.s:COI                                | 1.3768    | 3.15E-03       | 0.2775   | 0.077    | 1.3517    | [0.5849; 2.5658]         | 1.3493         | [0.8631; 1.9294]         | 2318.4609             | 7764.6           | 9001              |
| mutationRate.s:ENOLASE                            | 1.2569    | 2.75E-03       | 0.1427   | 0.0204   | 1.2565    | [0.7474; 1.8553]         | 1.2487         | [0.9794; 1.5282]         | 6677.0694             | 2696.1           | 9001              |
| mutationRate.s:HSP90                              | 0.5051    | 2.98E-03       | 0.1024   | 0.0105   | 0.5009    | [0.1713; 1.0887]         | 0.4945         | [0.3125; 0.7083]         | 15191.2538            | 1185             | 9001              |
| mutationRate.s:NADHI                              | 1.131     | 2.12E-03       | 0.1552   | 0.0241   | 1.1279    | [0.6033; 1.8197]         | 1.1202         | [0.8283; 1.4328]         | 3351.4631             | 5371.4           | 9001              |
| kappa1.s:ENOLASE                                  | 8.9322    | 0.0786         | 2.9984   | 8.9905   | 8.3708    | [3.0714; 30.5644]        | 8.4829         | [3.9207; 14.6789]        | 12386.0465            | 1453.4           | 9001              |
| kappa1.s:HSP90                                    | 3.8662    | 0.0829         | 2.4213   | 5.8625   | 3.2785    | [0.3945; 24.7326]        | 3.2505         | [0.5734; 8.2262]         | 21103.0895            | 853.1            | 9001              |
| kappa2.s:ENOLASE                                  | 2.3268    | 0.0248         | 0.9607   | 0.923    | 2.1529    | [0.3781; 8.5736]         | 2.1469         | [0.7453; 4.2003]         | 12020.6759            | 1497.6           | 9001              |
| kappa2.s:HSP90                                    | 17.0593   | 0.3116         | 9.7615   | 95.2864  | 14.7929   | [2.5399; 91.3563]        | 14.9013        | [4.09; 36.0253]          | 18349.0987            | 981.1            | 9001              |
| NeConstant.t:Australia                            | 1.81E-03  | 8.73E-06       | 5.23E-04 | 2.73E-07 | 1.74E-03  | [5.9562E-4; 4.5801E-3]   | 1.74E-03       | [8.9843E-4; 2.8762E-3]   | 5013.9747             | 3590.4           | 9001              |
| NeConstant.t:Canary                               | 0.5207    | 0.023          | 0.9958   | 0.9915   | 0.2127    | [2.1324E-3; 15.9]        | 0.2282         | [2.1324E-3; 1.9875]      | 9628.9884             | 1869.6           | 9001              |
| NeConstant.t:Europe                               | 0.1118    | 4.27E-03       | 0.1978   | 0.0391   | 0.0532    | [9.1283E-4; 3.9483]      | 0.055          | [9.1283E-4; 0.3909]      | 8392.9793             | 2144.9           | 9001              |
| NeConstant.t:NewZealand                           | 1.0896    | 0.0341         | 1.6962   | 2.8771   | 0.5392    | [1.5213E-3; 27.968]      | 0.513          | [1.5213E-3; 3.8725]      | 7291.0314             | 2469.1           | 9001              |
| NeConstant.t:NorthAmerica                         | 1.5157    | 0.0362         | 2.0486   | 4.1969   | 0.8748    | [0.0112; 53.3656]        | 0.8708         | [0.0112; 5.0507]         | 5609.8104             | 3209             | 9001              |
| NeConstant.t:SouthAfrica                          | 3.84E-03  | 1.59E-05       | 9.45E-04 | 8.93E-07 | 3.70E-03  | [1.5731E-3; 9.5885E-3]   | 3.73E-03       | [2.261E-3; 5.818E-3]     | 5112.4863             | 3521.2           | 9001              |
| *b_migrationConstant.t:NewZealand_to_Australia    | 7.1168    | 0.0803         | 2.8312   | 8.0159   | 6.8202    | [0.8744; 21.8329]        | 6.557          | [2.1601; 12.7592]        | 14494.3045            | 1242             | 9001              |
| b_migrationConstant.t:Europe_to_Australia         | 4.7588    | 0.067          | 2.2262   | 4.9561   | 4.4587    | [0.338; 13.6427]         | 4.2398         | [0.8606; 9.0996]         | 16330.854             | 1102.3           | 9001              |
| b_migrationConstant.t:Australia_to_SouthAfrica    | 4.3859    | 0.0575         | 2.0878   | 4.3589   | 4.0647    | [0.163; 16.882]          | 3.8831         | [0.8059; 8.5642]         | 13644.5694            | 1319.4           | 9001              |
| b_migrationConstant.t:Europe_to_SouthAfrica       | 3.1981    | 0.0753         | 1.9776   | 3.911    | 2.8019    | [0.0211; 14.7072]        | 2.5989         | [0.0865; 6.8777]         | 26071.119             | 690.5            | 9001              |
| b_migrationConstant.t:NorthAmerica_to_Australia   | 2.8604    | 0.0532         | 1.785    | 3.1864   | 2.5122    | [0.0162; 11.3561]        | 2.3077         | [0.1496; 6.6253]         | 16012.1468            | 1124.3           | 9001              |
| b_migrationConstant.t:Canary_to_Australia         | 2.4973    | 0.0591         | 1.7756   | 3.1528   | 2.0955    | [0.0266; 13.7787]        | 1.9026         | [0.1011; 5.8995]         | 19973.6491            | 901.3            | 9001              |
| b_migrationConstant.t:SouthAfrica_to_Australia    | 1.1988    | 0.0593         | 1.2381   | 1.5329   | 0.8104    | [5.116E-5; 10.7166]      | 0.6654         | [5.116E-5; 3.5073]       | 41246.2961            | 436.5            | 9001              |
| b_migrationConstant.t:NewZealand_to_Europe        | 1.1715    | 0.0561         | 1.2118   | 1.4686   | 0.7986    | [1.3213E-3; 15.9261]     | 0.6592         | [1.3213E-3; 3.4833]      | 38594.3642            | 466.4            | 9001              |
| b_migrationConstant.t:Europe_to_Canary            | 1.0611    | 0.0437         | 1.0386   | 1.0787   | 0.7708    | [4.9054E-5; 7.8189]      | 0.5826         | [1.6519E-4; 3.1883]      | 31868.7289            | 564.9            | 9001              |
| b_migrationConstant.t:NewZealand_to_SouthAfrica   | 1.0559    | 0.0481         | 1.111    | 1.2343   | 0.6792    | [5.8915E-4; 10.0676]     | 0.5565         | [5.8915E-4; 3.3774]      | 33774.1199            | 533              | 9001              |
| b_migrationConstant.t:Europe_to_NewZealand        | 1.0558    | 0.0445         | 1.0984   | 1.2066   | 0.7185    | [1.1922E-4; 9.4185]      | 0.5839         | [1.1922E-4; 3.1192]      | 29556.2322            | 609.1            | 9001              |
| b_migrationConstant.t:Canary_to_Europe            | 1.0557    | 0.0368         | 1.0011   | 1.0021   | 0.7507    | [2.5293E-4; 6.8595]      | 0.6042         | [4.4652E-4; 3.1916]      | 24358.7387            | 739              | 9001              |
| b_migrationConstant.t:Canary_to_NewZealand        | 1.0451    | 0.0374         | 1.0222   | 1.0449   | 0.7475    | [4.7457E-4; 9.0483]      | 0.6028         | [5.5138E-4; 2.998]       | 24053.8232            | 748.4            | 9001              |
| b_migrationConstant.t:NewZealand_to_Canary        | 1.0435    | 0.0397         | 1.0162   | 1.0327   | 0.7264    | [1.8202E-3; 8.8855]      | 0.5978         | [3.4386E-3; 3.0566]      | 27484.9554            | 655              | 9001              |
| b_migrationConstant.t:NorthAmerica_to_Europe      | 1.0368    | 0.0368         | 1.0026   | 1.0052   | 0.7423    | [1.2054E-3; 8.2179]      | 0.6069         | [1.5133E-3; 2.9721]      | 24284.9316            | 741.3            | 9001              |
| b_migrationConstant.t:SouthAfrica_to_Europe       | 1.0286    | 0.0381         | 0.9789   | 0.9582   | 0.7431    | [9.607E-6; 9.5051]       | 0.5921         | [9.607E-6; 2.9713]       | 27302.4226            | 659.4            | 9001              |
| b_migrationConstant.t:NorthAmerica_to_NewZealand  | 1.0275    | 0.0388         | 1.0082   | 1.0165   | 0.7137    | [3.5944E-4; 7.0604]      | 0.5778         | [3.5944E-4; 3.0617]      | 26652.5554            | 675.4            | 9001              |
| b_migrationConstant.t:NewZealand_to_NorthAmerica  | 1.0238    | 0.0373         | 1.0275   | 1.0558   | 0.7075    | [5.9062E-4; 7.9858]      | 0.5836         | [5.9062E-4; 3.0357]      | 23734.3681            | 758.5            | 9001              |
| b_migrationConstant.t:Australia_to_Canary         | 1.0159    | 0.0366         | 0.976    | 0.9525   | 0.7163    | [7.2784E-4; 7.6225]      | 0.5864         | [7.2784E-4; 3.0853]      | 25306.7173            | 711.4            | 9001              |
| b_migrationConstant.t:Australia_to_Europe         | 1.0141    | 0.0505         | 1.0534   | 1.1096   | 0.6673    | [5.3308E-5; 7.7427]      | 0.5358         | [6.7193E-5; 3.0928]      | 41322.5061            | 435.6            | 9001              |
| b_migrationConstant.t:NorthAmerica_to_SouthAfrica | 1.0063    | 0.0365         | 1.0184   | 1.0372   | 0.6996    | [1.4665E-3; 7.7548]      | 0.5573         | [1.5509E-3; 2.9897]      | 23169.8228            | 777              | 9001              |
| b_migrationConstant.t:Canary_to_SouthAfrica       | 0.9954    | 0.0356         | 0.9744   | 0.9495   | 0.7       | [1.9182E-4; 6.4083]      | 0.5505         | [1.9182E-4; 2.9513]      | 24038.6675            | 748.9            | 9001              |
| b_migrationConstant.t:NorthAmerica_to_Canary      | 0.9953    | 0.0387         | 1.0066   | 1.0133   | 0.6779    | [1.8847E-3; 8.4098]      | 0.5494         | [1.8847E-3; 3.0312]      | 26564.3331            | 677.7            | 9001              |
| b_migrationConstant.t:Australia_to_NewZealand     | 0.9914    | 0.0326         | 0.9781   | 0.9566   | 0.7268    | [1.0392E-3; 7.8908]      | 0.5864         | [1.0392E-3; 2.7681]      | 20008.4981            | 899.7            | 9001              |
| b_migrationConstant.t:Australia_to_NorthAmerica   | 0.9802    | 0.0467         | 0.9668   | 0.9347   | 0.6874    | [4.0638E-4; 7.4496]      | 0.5634         | [8.2404E-4; 2.9071]      | 42062.8755            | 428              | 9001              |
| b_migrationConstant.t:Canary_to_NorthAmerica      | 0.9774    | 0.0376         | 0.979    | 0.9583   | 0.6848    | [1.4064E-3; 9.6053]      | 0.5559         | [1.4064E-3; 2.9797]      | 26620.6777            | 676.2            | 9001              |
| b_migrationConstant.t:Europe_to_NorthAmerica      | 0.973     | 0.0354         | 0.9529   | 0.9079   | 0.6995    | [5.5813E-4; 8.7981]      | 0.5529         | [1.3984E-3; 2.8995]      | 24802.7458            | 725.8            | 9001              |
| b_migrationConstant.t:SouthAfrica_to_Canary       | 0.9655    | 0.0339         | 0.9628   | 0.927    | 0.6521    | [7.4174E-4; 7.0515]      | 0.5429         | [1.0325E-3; 2.9746]      | 22299.0508            | 807.3            | 9001              |
| b_migrationConstant.t:SouthAfrica_to_NorthAmerica | 0.9573    | 0.0406         | 0.9827   | 0.9657   | 0.6516    | [1.817E-4; 9.575]        | 0.5108         | [8.9674E-4; 2.9135]      | 30674.6091            | 586.9            | 9001              |
| b_migrationConstant.t:SouthAfrica_to_NewZealand   | 0.9416    | 0.0369         | 0.9604   | 0.9224   | 0.6337    | [5.9553E-4; 6.839]       | 0.5247         | [8.3547E-4; 2.8346]      | 26555.3608            | 677.9            | 9001              |
| Mascot  | 124.5497  | 0.3022         | 8.7221   | 76.0759  | 124.6123  | [91.1853; 154.3462]      | 124.2415       | [108.0367; 141.9192]     | 21609.1267            | 833.1            | 9001              |

\*b\_migration - migration rates are backwards in time, e.g. "b\_migrationConstant.t:ASF\_CC\_mul.NewZealand\_to\_Australia" shows migration from Australia to New Zealand.