Table 1

| Country | Site (code) | Population type | Position | N | Na[a] | Ne[a] | %P | Ho[a] | He[a] | *D* | Apriv | $F_{IS}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **New Zealand** | | | | **t=439** | **1.12 (<0.01)** | **1.05 (0.04)** | **13.17** | **-** | **0.03 (0.02)** | **0.94** | **97** | **-** |
| | **West Coast North Island (WNI)** | | | **t=43** | **1.20 (0.05)** | **1.07 (<0.01)** | **30.51** | **-** | **0.05 (<0.01)** | **1** | **24** | **-** |
| | Shelly Beach (SHEL) | Fixed | 36° 34 ‘S, 174° 22’E | 2n=14 | 1.19 (<0.01) | 1.07 (<0.01) | 20.03 | 0.05 (<0.01) | 0.05 (<0.01) | 1 | 20 | -0.04 |
| | | | | t=23 | 1.24 (<0.01) | 1.07 (<0.01) | 24.15 | - | 0.05 (<0.01) | 1 | 18 | - |
| | Raglan (RAGL) | Fixed | 37° 48’ S, 174° 53' E | 2n=10 | 1.15 (<0.01) | 1.07 (<0.01) | 15.99 | 0.05 (<0.01) | 0.05 (<0.01) | 1 | 6 | -0.07 |
| | | | | t=20 | 1.17 (<0.01) | 1.07 (<0.01) | 17.29 | - | 0.05 (<0.01) | 1 | 6 | - |
| | **North Eastern (NE)** | | | **t=47** | **1,27 (0.03)** | **1.13 (0.01)** | **35.89** | **-** | **0.08 (<0.01)** | **1** | **24** | **-** |
| | Whitianga (WITI) | Fixed | 36° 50' S, 175° 41' E | 2n=12 | 1.28 (0.01) | 1.14 (<0.01) | 28.45 | 0.09 (<0.01) | 0.09 (<0.01) | 1 | 12 | -0.01 |
| | | | | t=22 | 1.30 (0.01) | 1.14 (<0.01) | 30.24 | - | 0.09 (<0.01) | 1 | 11 | - |
| | Ohope (OHOP) | Fixed | 37° 58' S, 177° 04' E | 2n=13 | 1.23 (0.03) | 1.12 (<0.01) | 23.88 | 0.07 (<0.01) | 0.08 (<0.01) | 1 | 16 | 0.01 |
| | | | | t=25 | 1.25 (0.01) | 1.12 (<0.01) | 25.81 | - | 0.08 (<0.01) | 1 | 13 | - |
| | **East Coast North Island (ENI)** | | | **t=20** | **1.20 (<0.01)** | **1.02 (<0.01)** | **22.49** | **-** | **0.03 (<0.01)** | **0.95** | **25** | **-** |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ahuriri (AHUR) | Fixed | 39° 28' S, 176° 53' E | 2n=12 | 1.12 (<0.01) | 1.03 (<0.01) | 22.13 | 0.04 (<0.01) | 0.04 (<0.01) | 0.92 | 28 | -0.03 |
| | | | t=20 | 1.20 (<0.01) | 1.02 (<0.01) | 22.49 | - | 0.03 (<0.01) | 0.95 | 25 | - |
| **North Cook Strait (NCS)** | | | **t=40** | **1.26 (0.02)** | **1.10 (<0.01)** | **31.09** | **-** | **0.07 (<0.01)** | **0.95** | **0** | **-** |
| Paremata (PARE) | Fixed | 41° 06' S, 174° 52' E | 2n=11 | 1.24 (<0.01) | 1.10 (<0.01) | 24.64 | 0.07 (<0.01) | 0.07 (<0.01) | 1 | 0 | -0.03 |
| | | | t=20 | 1.27 (<0.01) | 1.10 (<0.01) | 27.78 | - | 0.07 (<0.01) | 0.95 | 0 | - |
| Pauatahanui (PAUA) | Floating | 41° 05’ S, 174° 54’E | 2n=12 | 1.23 (<0.01) | 1.09 (<0.01) | 23.07 | 0.06 (<0.01) | 0.06 (<0.01) | 1 | 0 | -0.02 |
| | | | t=20 | 1.25 (<0.01) | 1.10 (<0.01) | 24.73 | - | 0.06 (<0.01) | 0.95 | 0 | - |
| **West Coast South Island (WSI)** | | | **t=22** | **1.03 (<0.01)** | **1.01 (<0.01)** | **2.96** | **-** | **0.01 (<0.01)** | **1** | **7** | **-** |
| Okari River (OKAR) | Fixed | 41° 48' S, 171° 27' E | 2n=12 | 1.02 (<0.01) | 1.01 (<0.01) | 2.51 | 0.01 (<0.01) | 0.01 (<0.01) | 1 | 7 | -0.05 |
| | | | t=22 | 1.03 (<0.01) | 1.01 (<0.01) | 2.96 | - | 0.01 (<0.01) | 1 | 7 | - |
| **South Cook Strait (SCS)** | | | **t=63** | **1.12 (0.05)** | **1.04 (0.04)** | **31.59** | **-** | **0.02 (0.02)** | **1** | **10** | **-** |
| Whanganui Inlet (WAIN) | Fixed | 40° 35’ S, 172° 37’ E | 2n=13 | 1.07 (<0.01) | 1.02 (<0.01) | 8.78 | 0.02 (<0.01) | 0.02 (<0.01) | 1 | 0 | -0.02 |
| | | | t=22 | 1.11 (<0.01) | 1.02 (<0.01) | 13.22 | - | 0.02 (<0.01) | 1 | 0 | - |
| Moutere Inlet (MOUT) | Fixed | 41° 08' S, 173° 00' E | 2n=11 | 1.16 (<0.01) | 1.08 (<0.01) | 16.00 | 0.05 (<0.01) | 0.05 (<0.01) | 1 | 2 | -0.05 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | t=22 | 1.18 (<0.01) | 1.08 (<0.01) | 17.61 | - | 0.05 (<0.01) | 1 | 2 | - |
| Momorangi Bay (MOMO) | Fixed | 41° 16' S, 173° 56' E | 2n=10 | 1.06 (<0.01) | 1.02 (<0.01) | 6.54 | 0.01 (<0.01) | 0.01 (<0.01) | 1 | 9 | -0.04 |
| | | | t=19 | 1.07 (<0.01) | 1.02 (<0.01) | 7.39 | - | 0.01 (<0.01) | 1 | 8 | - |
| **East Coast South Island (ESI)** | | | **t=38** | **1.06 (0.02)** | **1.03 (0.01)** | **7.53** | **-** | **0.02 (<0.01)** | **0.71** | **0** | **-** |
| South Brighton (BRIG) | Fixed | 43° 31' S, 172° 43' E | 2n=11 | 1.07 (<0.01) | 1.04 (<0.01) | 7.30 | 0.03 (<0.01) | 0.02 (<0.01) | 1 | 0 | -0.11 |
| | | | t=22 | 1.07 (<0.01) | 1.04 (<0.01) | 7.39 | - | 0.02 (<0.01) | 0.95 | 0 | - |
| Ferrymead (FERR) | Floating | 43° 33' S, 172° 41' E | 2n=16[d] | 1.05 (<0.01) | 1.02 (<0.01) | 5.87 | 0.03 (<0.01) | 0.02 (<0.01) | 0.38 | 0 | -0.21 |
| **Southern (SOUT)** | | | **t=92** | **1.05 (0.02)** | **1.02 (0.01)** | **10.66** | **-** | **0.02 (<0.01)** | **0.90** | **7** | **-** |
| Stewart Island (STEW) | Fixed | 46° 54’ S, 168° 08’ E | 2n=10 | 1.03 (<0.01) | 1.01 (<0.01) | 3.81 | 0.01 (<0.01) | 0.01 (<0.01) | 1 | 2 | -0.06 |
| | | | t=20 | 1.04 (<0.01) | 1.01 (<0.01) | 4.53 | - | 0.01 (<0.01) | 1 | 2 | - |
| Catlins Lake (CALA) | Floating | 46° 28'S, 169° 38' E | 2n=10 | 1.04 (<0.01) | 1.02 (<0.01) | 4.39 | 0.02 (<0.01) | 0.01 (<0.01) | 0.46 | 0 | -0.11 |
| | | | t=13 | 1.05 (<0.01) | 1.02 (<0.01) | 4.70 | - | 0.01 (<0.01) | 0.69 | 0 | - |
| Hinahina (HINA) | Fixed | 46° 28' S, 169° 40' E | 2n=10 | 1.05 (<0.01) | 1.03 (<0.01) | 5.29 | 0.02 (<0.01) | 0.02 (<0.01) | 0.91 | 0 | -0.06 |
| | | | t=20 | 1.06 (<0.01) | 1.03 (<0.01) | 5.56 | - | 0.02 (<0.01) | 0.95 | 0 | - |
| Otago Harbour (OTAG) | Fixed | 45° 50' S, 170° 39' E | 2n=11 | 1.06 (<0.01) | 1.03 (<0.01) | 6.54 | 0.02 (<0.01) | 0.02 (<0.01) | 1 | 6 | -0.10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | t=22 | 1.07 (<0.01) | 1.03 (<0.01) | 7.21 | - | 0.02 (<0.01) | 1 | 5 | - |
| | Hoopers Inlet (HOOP) | Floating | 45° 51' S, 170° 39' E | 2n=14 | 1.03 (<0.01) | 1.00 (<0.01) | 4.61 | 0.02 (<0.01) | 0.01 (<0.01) | 0.71 | 0 | -0.16 |
| | | | | t=17 | 1.03 (<0.01) | 1.00 (<0.01) | 4.93 | - | 0.01 (<0.01) | 0.76 | 0 | - |
| | **Fiordland (FIOR)** | | | **t=40** | **1.05 (0.03)** | **1.02 (0.02)** | **8.96** | **-** | **0.02 (<0.01)** | **0.98** | **0** | **-** |
| | Fiordland (CASS) | Fixed | 45° 55' S, 166° 54' E | 2n=11 | 1.03 (<0.01) | 1.01 (<0.01) | 3.50 | 0.01 (<0.01) | 0.01 (<0.01) | 1 | 0 | -0.03 |
| | | | | t=20 | 1.03 (<0.01) | 1.01 (<0.01) | 3.58 | - | 0.01 (<0.01) | 1 | 0 | - |
| | Riverton (RIVE) | Fixed | 46° 21' S, 168° 00' E | 2n=11 | 1.07 (<0.01) | 1.03 (<0.01) | 6.90 | 0.02 (<0.01) | 0.02 (<0.01) | 0.91 | 0 | -0.12 |
| | | | | t=20 | 1.07 (<0.01) | 1.03 (<0.01) | 7.44 | - | 0.02 (<0.01) | 0.95 | 0 | - |
| | **Chatham Islands (CHT)** | | | **t=34** | **1.12 (<0.01)** | **1.05 (<0.01)** | **7.44** | **-** | **0.03 (<0.01)** | **0.95** | **0** | **-** |
| | Chatham Islands (CHIS) | Fixed | 43° 46' S, 176° 33' E | 2n=9 | 1.11 (<0.01) | 1.05 (<0.01) | 11.47 | 0.04 (<0.01) | 0.04 (<0.01) | 1 | 0 | -0.09 |
| | | | | t=15 | 1.12 (<0.01) | 1.05 (<0.01) | 12.32 | - | 0.03 (<0.01) | 1 | 0 | - |
| | Chatham Islands (CHAT) | Floating | 43° 46' S, 176° 33' E | 2n=16 | 1.12 (<0.01) | 1.05 (<0.01) | 11.69 | 0.03 (<0.01) | 0.03 (<0.01) | 1 | 0 | -0.05 |
| | | | | t=19 | 1.13 (<0.01) | 1.05 (<0.01) | 12.68 | - | 0.03 (<0.01) | 1 | 0 | - |
| **South America** | | | | **t=248** | **1.07 (0.03)** | **1.04 (0.02)** | **6.60** | **-** | **0.02 (0.01)** | **0.60** | **0** | **-** |
| | **Peruvian bioregion** | | | **t=34** | **1.05 (<0.01)** | **1.03 (<0.01)** | **9.05** | **-** | **0.02 (<0.01)** | **0.26** | **0** | **-** |

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| **(PER)** | | | | | | | | | | | |
| Morro Sama (MOSA) | Floating | 17° 59′ S, 70° 52′ W | t=8[h] | 1.00 (<0.01) | 1.00 (<0.01) | 0.94 | - | 0.00 (0.00) | 0.38 | 0 | - |
| Caldera (FCAL) | Floating | 27º 04' S, 70º 50' W | 2n=15[d] | 1.08 (<0.01) | 1.05 (<0.01) | 7.93 | 0.05 (<0.01) | 0.03 (<0.01) | 0.20 | 0 | -0.49 |
| Coquimbo (FCOQ) | Floating | 28º 58' S, 71º 21' W | 2n=11[d] | 1.07 (<0.01) | 1.04 (<0.01) | 6.99 | 0.03 (<0.01) | 0.02 (<0.01) | 0.27 | 0 | -0.21 |
| **Intermediate Area (INT)** | | | **t=145** | **1.06 (0.2)** | **1.03 (0.02)** | **10.08** | **-** | **0.02 (<0.01)** | **0.68** | **0** | **-** |
| Dichato (NDIC) | Fixed | 36º 32' S, 72º 56' W | 2n=5 | 1.05 (<0.01) | 1.04 (<0.01) | 4.84 | 0.02 (<0.01) | 0.02 (<0.01) | 1 | 0 | 0.00 |
| | | | t=19 | 1.05 (<0.01) | 1.04 (<0.01) | 5.02 | - | 0.02 (<0.01) | 1 | 0 | - |
| Lenga (FLEN) | Floating | 36º 45' S, 73º 11' W | 2n=5 | 1.03 (<0.01) | 1.03 (<0.01) | 3.41 | 0.03 (<0.01) | 0.01 (<0.01) | 0.40 | 0 | -0.72 |
| | | | t=24 | 1.05 (<0.01) | 1.02 (<0.01) | 4.66 | - | 0.01 (<0.01) | 0.25 | 0 | - |
| Lenga (NLEN) | Fixed | 36º 45' S, 73º 11' W | 2n=11 | 1.08 (<0.01) | 1.03 (<0.01) | 7.88 | 0.02 (<0.01) | 0.02 (<0.01) | 0.73 | 0 | -0.06 |
| | | | t=25 | 1.09 (<0.01) | 1.03 (<0.01) | 8.96 | - | 0.02 (<0.01) | 0.88 | 0 | - |
| Coliumo (FCOL) | Floating | 36º 52' S, 72º 95' W | 2n=10 | 1.06 (<0.01) | 1.03 (<0.01) | 5.91 | 0.03 (<0.01) | 0.02 (<0.01) | 0.40 | 0 | -0.42 |
| | | | t=25 | 1.06 (<0.01) | 1.03 (<0.01) | 6.14 | - | 0.02 (<0.01) | 0.28 | 0 | - |
| Niebla (NNIE) | Fixed | 39º 52' S, 73º 23' W | 2n=13 | 1.03 (<0.01) | 1.01 (<0.01) | 3.40 | 0.01 (<0.01) | 0.01 (<0.01) | 0.62 | 0 | -0.06 |
| | | | t=27 | 1.04 (<0.01) | 1.01 (<0.01) | 4.08 | - | 0.01 (<0.01) | 0.81 | 0 | - |

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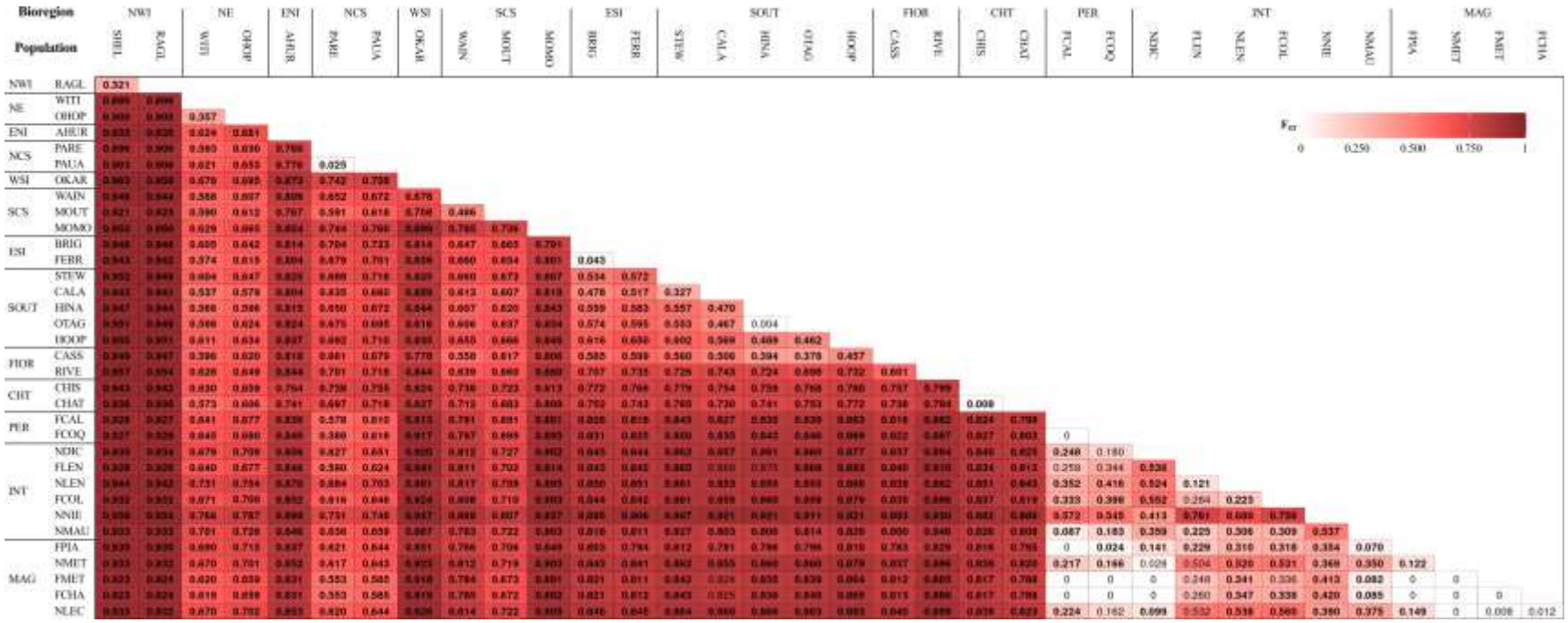
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Maullin (NMAU) | Fixed | 41º 37' S, 73º 35' W | 2n=10 | 1.09 (<0.01) | 1.05 (<0.01) | 9.23 | 0.04 (<0.01) | 0.03 (<0.01) | 0.80 | 0 | -0.10 |
| | | | | t=25 | 1.09 (<0.01) | 1.05 (<0.01) | 9.36 | - | 0.03 (<0.01) | 0.92 | 0 | - |
| | **Magellanic Bioregion (MAG)** | | | **t=69** | **1.08 (0.02)** | **1.06 (<0.01)** | **9.50** | **-** | **0.03 (<0.01)** | **0.61** | **0** | **-** |
| | Piedra Azul (FPIA) | Floating | 41º 30' S, 72º 47' W | 2n=14 | 1.09 (<0.01) | 1.07 (<0.01) | 8.65 | 0.05 (<0.01) | 0.04 (<0.01) | 0.79 | 0 | -0.42 |
| | | | | t=15 | 1.09 (<0.01) | 1.07 (<0.01) | 8.65 | - | 0.04 (<0.01) | 0.80 | 0 | - |
| | Metri (NMET) | Fixed | 41º 36' S, 72º 42' W | 2n=7 | 1.05 (<0.01) | 1.04 (<0.01) | 5.02 | 0.03 (<0.01) | 0.02 (<0.01) | 0.57 | 0 | -0.50 |
| | | | | t=12 | 1.05 (<0.01) | 1.05 (<0.01) | 5.02 | - | 0.02 (<0.01) | 0.75 | 0 | - |
| | Metri (FMET) | Floating | 41º 36' S, 72º 42' W | 2n=14 [d] | 1.08 (<0.01) | 1.06 (<0.01) | 8.38 | 0.05 (<0.01) | 0.03 (<0.01) | 0.14 | 0 | -0.51 |
| | Chaica (FCHA) | Floating | 41º 38' S, 72º 39' W | 2n=10 [d] | 1.08 (<0.01) | 1.05 (<0.01) | 8.24 | 0.05 (<0.01) | 0.03 (<0.01) | 0.20 | 0 | -0.54 |
| | Lenca (NLEC) | Fixed | 41º 60' S, 72º 60' W | 2n=4 | 1.05 (<0.01) | 1.04 (<0.01) | 4.75 | 0.02 (<0.01) | 0.02 (<0.01) | 1 | 0 | -0.06 |
| | | | | t=18 | 1.08 (<0.01) | 1.05 (<0.01) | 8.06 | - | 0.03 (<0.01) | 0.94 | 0 | - |
| **Total** | | | | **t=687** | **1.23 (<0.01)** | **1.08 (<0.01)** | **10. 62** | **-** | **0.06 (<0.01)** | **0.82** | **97** | **-** |

Table 2


Bioregion
Population
NWI
SHEL
RAGL
NE
WITI
OHOP
ENI
AHUR
NCS
PARE
PAUA
WSI
OKAR
SCS
WAIN
MOUT
MOMO
ESI
BREG
FERR
SOUT
STEW
CALA
HINA
OTAG
HOOP
FIOR
CASS
RIVE
CHT
CHIS
CHAT
PER
FCAL
FCOQ
INT
NDIC
FLEN
NLEN
FCOL
NNIR
NMAU
MAG
FPIA
NMET
FMET
FCHA
$F_{ST}$
0
0.250
0.500
0.750
1