Table 1. Results of regional genetic diversity among Antarctic Specially Protected Area (ASPA) and free access populations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Region | Population | N | #locP | PLP | *Hj* |
| Antarctica | ASPA | 105  | 17 | 12 | 0.04943 |
| southern Patagonia | Protected | 35 | 23 | 16.2 | 0.05438 |
| Antarctica | Free access | 128 | 45 | 31 | 0.07558 |
| southern Patagonia | Non protected | 20 | 18 | 13.4 | 0.05152 |

#locP = number of polymorphic loci; PLP = proportion of polymorphic loci at the 5 % level; Hj= expected heterozygosity under H-W proportions

Table 2. Results of genetic diversity among Antarctic Specially Protected Area (ASPA) and free access areas in island sites

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Island | N | #locP | PLP | *Hj*  |
| King George ASPA  | 66  | 12 | 8.5  | 0.02065  |
| Livingston\_ASPA  | 24 | 67 | 47.2 | 0.11880  |
| Robert ASPA | 15 | 18 | 12.7 | 0.09507  |
| Tierra del Fuego Protected | 35 | 16 | 11.3 | 0.04674  |
| King George FA | 78 | 9 | 6.3 | 0.04549  |
| Livingston FA | 20 | 1 | 0.8 | 0.00130  |
| Nelson FA | 9  | 4 | 2.8  | 0.00661 |
| Robert FA | 21 | 84 | 59.2  | 0.20807  |
| southern Patagonia NP | 20 | 44 | 31.0  | 0.08000  |

FA = Free access sites; NP= Non protected; #locP = number of polymorphic loci; PLP = proportion of polymorphic loci at the 5 % level; Hj= expected heterozygosity under H-W proportions

Table 3: Results of genetic diversity within populations in Antarctic Specially Protected Area (ASPA) and free access sites

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Island | Site | N°ASPA | N | #locP | PLP | *Hj* |
| King George | Ardley I. ASPA | 150 | 35 | 0 | 0.0  | 0.00033 |
| King George | Collins ASPA | 125 | 16 | 23 | 16.2 | 0.04796 |
| King George | Potter ASPA | 132 | 15 | 6 | 5.5 | 0.02557 |
| Livingston | Byers Pen. ASPA | 126 | 24 | 67 | 47.2 | 0.11880 |
| Robert | Coppermine ASPA | 112 | 15 | 18 | 12.7 | 0.09507 |
| Tierra del Fuego | Karukinka Natural Park P | Private protection | 35 | 16 | 11.3 | 0.04674 |
| Magallanes | Parrillar Lagoon P | State protection | 10 | 27 | 19 | 0.11268 |
| King George | Collins FA | - | 14 | 22 | 15.5 | 0.02649 |
| King George | Potter FA | - | 15 | 8 | 5.6  | 0.01577 |
| King George | Elephant Beach FA | - | 17 | 2 | 1.5 | 0.00175 |
| King George | Suffield Point FA | - | 32 | 54 | 38 | 0.07454 |
| Livingston | Hurd Point FA | - | 10 | 0 | 0 | 0 |
| Livingston | Hannah Point FA | - | 10 | 1 | 0.8 | 0.00237 |
| Robert | Coppermine FA | - | 21 | 84 | 59.2 | 0.20807 |
| Nelson | Pereira Point FA | - | 9  | 4 | 2.8 | 0.00661 |
| Magallanes | Riesco Island, Otway NP | - | 10 | 18 | 13.4 | 0.05152 |

FA = free access sites; P= Protected; NP= non protected; #locP = number of polymorphic loci; PLP = proportion of polymorphic loci at the 5 % level; Hj = expected heterozygosity under H-W proportions