

Supplementary Table 1. Species, localities and GenBank accession numbers used in the analyses for the different loci. Map numbers correspond with numbers shown in Figure 1.

| Species | Locality | Map number | Identification code | mtDNA (control region) | nDNA (12884) |
|-----------------------------|-----------------------------------|------------|---------------------|------------------------|--------------|
| <i>Cyanistes teneriffae</i> | Gran Canaria (Canary Islands) | 1 | ST514 | AY538244 | - |
| | | | ST515 | AY538245 | - |
| | | | ST516 | AY538246 | JF755157 |
| | | | ST517 | AY538247 | JF755158 |
| | | | ST518 | AY538248 | JF755159 |
| | | | ST519 | AY538249 | - |
| | | | ST554 | AY588286 | JF755160 |
| | | | ST555 | AY588287 | - |
| | | | ST556 | AY588288 | JF755161 |
| | | | ST697 ^a | JF755304 | JF755162 |
| | | | ST698 ^a | JF755305 | - |
| | | | ST1653 ^a | JF755307 | - |
| | | | ST1655 ^a | JF755310 | - |
| | | | ST1657 | - | JF755163 |
| | | | ST1660 ^a | JF755308 | - |
| | | | ST1661 ^a | JF755306 | JF755164 |
| | | | ST1664 | - | JF755165 |
| | | | ST1665 ^a | JF755316 | JF755166 |
| | | | ST1689 ^a | JF755311 | JF755167 |
| | | | ST1691 | - | JF755168 |
| ST1692 ^a | JF755313 | JF755169 | | | |
| ST1694 ^a | JF755309 | JF755170 | | | |
| ST1695 ^a | JF755314 | - | | | |
| ST1696 ^a | JF755315 | JF755171 | | | |
| ST1725 ^a | JF755312 | - | | | |
| <i>Cyanistes teneriffae</i> | El Hierro (Canary Islands) | 2 | ST346 | AY538224 | - |
| | | | ST347 | AY538225 | - |
| | | | ST348 | AY538226 | - |
| | | | ST349 | AY538227 | - |
| | | | ST350 | AY538228 | - |
| | | | ST351 | AY538229 | - |
| | | | ST352 | AY538230 | - |
| | | | ST407 | AY538231 | JF755206 |
| | | | ST408 | AY538232 | JF755207 |
| | | | ST1854 | - | JF755208 |
| | | | ST1858 | - | JF755209 |
| | | | ST1865 | - | JF755210 |
| | | | ST1866 ^a | JF755249 | - |
| | | | ST1857 ^a | JF755250 | - |
| | | | ST1875 ^a | JF755251 | - |
| | | | ST1874 ^a | JF755252 | - |
| | | | ST1867 ^a | JF755253 | - |
| | | | ST1868 ^a | JF755254 | - |
| | | | ST1869 ^a | JF755255 | - |
| | | | ST1870 ^a | JF755256 | JF755211 |
| | | | ST1871 ^a | JF755257 | - |
| | | | ST1872 ^a | JF755258 | - |
| | | | ST1873 ^a | JF755259 | - |
| ST1876 | - | JF755212 | | | |
| ST1877 | - | JF755213 | | | |
| <i>Cyanistes teneriffae</i> | Fuerteventura (Canary Islands) | 3 | ST241 ^b | AY538189 | - |
| | | | ST242 ^b | AY538190 | - |
| | | | ST324 | AY538235 | JF755125 |

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|-----------------------------|----------------------------|---|---------------------|----------|----------|
| | | | ST414 | - | JF755126 |
| | | | ST415 | JF755111 | - |
| | | | ST416 | AY538236 | - |
| | | | ST417 | AY538237 | - |
| | | | ST418 | AY538238 | - |
| | | | ST419 | AY538239 | - |
| | | | ST420 | AY538240 | JF755112 |
| | | | ST421 | AY538241 | JF755121 |
| | | | ST422 | AY538242 | - |
| | | | ST424 | AY538243 | - |
| | | | ST588 | AY588281 | - |
| | | | ST693 ^a | JF755278 | JF755113 |
| | | | ST694 | - | JF755123 |
| | | | ST695 ^a | JF755279 | JF755115 |
| | | | ST696 ^a | JF755280 | JF755114 |
| | | | ST1678 | - | JF755116 |
| | | | ST1677 ^a | JF755281 | JF755119 |
| | | | ST1645 ^a | JF755282 | - |
| | | | ST1644 ^a | JF755283 | - |
| | | | ST1643 | - | JF755124 |
| | | | ST1642 ^a | JF755284 | JF755117 |
| | | | ST1641 ^a | JF755285 | JF755120 |
| | | | ST1640 | - | JF755118 |
| | | | ST1639 ^a | JF755286 | - |
| | | | ST1638 ^a | JF755287 | JF755122 |
| <i>Cyanistes teneriffae</i> | Tenerife (Canary Islands) | 4 | ST319 | AY538194 | - |
| | | | ST320 | AY538195 | JF755141 |
| | | | ST321 | AY538196 | - |
| | | | ST322 | AY538197 | - |
| | | | ST323 | AY538198 | - |
| | | | ST325 | AY538199 | - |
| | | | ST326 | AY538200 | - |
| | | | ST327 | AY538201 | - |
| | | | ST328 | AY538202 | - |
| | | | ST329 | AY538203 | - |
| | | | ST330 | AY538204 | - |
| | | | ST331 | AY538205 | - |
| | | | ST332 | AY538206 | - |
| | | | ST333 | AY538207 | - |
| | | | ST334 | AY538208 | JF755142 |
| | | | ST335 | AY538209 | - |
| | | | ST410 | AY538210 | JF755143 |
| | | | ST411 | AY538211 | JF755144 |
| | | | ST520 | - | JF755145 |
| | | | ST521 | AY538212 | - |
| | | | ST557 | AY588289 | JF755146 |
| | | | ST1605 ^a | JF755237 | - |
| | | | ST1613 | - | JF755147 |
| | | | ST1614 | - | JF755148 |
| | | | ST1616 | - | JF755154 |
| | | | ST1617 | - | JF755149 |
| | | | ST1618 | - | JF755150 |
| | | | ST1619 ^a | JF755236 | - |
| | | | ST1620 | - | JF755151 |
| | | | ST1621 | - | JF755152 |
| | | | ST1623 | - | JF755155 |
| | | | ST1625 | - | JF755153 |
| | | | ST1628 | - | JF755156 |
| <i>Cyanistes teneriffae</i> | La Gomera (Canary Islands) | 5 | ST412 | AY538233 | - |

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|-----------------------------|----------------------------|---|---------------------|----------|----------|
| | | | ST413 | AY538234 | JF755175 |
| | | | ST699 ^a | JF755260 | - |
| | | | ST701 ^a | JF755261 | - |
| | | | ST702 ^a | JF755262 | JF755176 |
| | | | ST1697 ^a | JF755269 | JF755172 |
| | | | ST1698 ^a | JF755264 | - |
| | | | ST1700 | - | JF755173 |
| | | | ST1701 ^a | JF755263 | JF755174 |
| | | | ST1702 ^a | JF755271 | - |
| | | | ST1798 ^a | JF755272 | JF755177 |
| | | | ST1799 ^a | JF755273 | JF755178 |
| | | | ST1800 ^a | JF755274 | JF755179 |
| | | | ST1801 ^a | JF755275 | JF755180 |
| | | | ST1802 ^a | JF755276 | JF755181 |
| | | | ST1803 ^a | JF755277 | JF755182 |
| | | | ST1804 ^a | JF755270 | JF755183 |
| | | | ST1805 ^a | JF755268 | JF755184 |
| | | | ST1806 ^a | JF755267 | JF755185 |
| | | | ST1807 ^a | JF755266 | JF755186 |
| | | | ST1808 ^a | JF755265 | - |
| | | | ST1809LG | - | JF755187 |
| | | | ST1810LG | - | JF755188 |
| <i>Cyanistes teneriffae</i> | La Palma (Canary Islands) | 6 | ST336 | AY538213 | - |
| | | | ST337 | AY538214 | - |
| | | | ST338 | AY538215 | - |
| | | | ST339 | AY538216 | - |
| | | | ST340 | AY538217 | - |
| | | | ST341 | AY538218 | - |
| | | | ST342 | AY538219 | - |
| | | | ST343 | AY538220 | - |
| | | | ST344 | AY538221 | - |
| | | | ST345 | AY538222 | - |
| | | | ST409 | AY538223 | - |
| | | | ST244 | AY538191 | - |
| | | | ST1820 | - | JF755198 |
| | | | ST1821 | - | JF755199 |
| | | | ST1822 | - | JF755200 |
| | | | ST1823 | - | JF755201 |
| | | | ST1826 ^a | JF755238 | - |
| | | | ST1828 ^a | JF755242 | - |
| | | | ST1830 ^a | JF755241 | JF755202 |
| | | | ST1831 | - | JF755203 |
| | | | ST1832 ^a | JF755239 | - |
| | | | ST1833 | - | JF755205 |
| | | | ST1834 ^a | JF755243 | - |
| | | | ST1836 ^a | JF755240 | - |
| | | | ST1838 ^a | JF755244 | - |
| | | | ST1840 ^a | JF755245 | - |
| | | | ST1843 ^a | JF755246 | - |
| | | | ST1844 ^a | JF755247 | JF755197 |
| | | | ST1845 ^a | JF755248 | - |
| <i>Cyanistes teneriffae</i> | Lanzarote (Canary Islands) | 7 | ST240 ^b | AY538188 | - |
| | | | ST587 | AY588282 | JF755127 |
| | | | ST589 | AY588283 | JF755128 |
| | | | ST590 | AY588284 | JF755129 |
| | | | ST591 | AY588285 | - |
| | | | ST688 ^a | JF755288 | - |
| | | | ST689 ^a | JF755291 | JF755130 |
| | | | ST690 ^a | JF755289 | - |

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|-----------------------------|--|----|---------------------|----------|----------|
| | | | ST691 ^a | JF755292 | JF755131 |
| | | | ST692 ^a | JF755290 | - |
| | | | ST1646 ^a | JF755299 | JF755133 |
| | | | ST1647 ^a | JF755298 | JF755132 |
| | | | ST1648 ^a | JF755297 | JF755134 |
| | | | ST1649 ^a | JF755296 | JF755135 |
| | | | ST1650 ^a | JF755295 | JF755136 |
| | | | ST1651 ^a | JF755294 | - |
| | | | ST1652 ^a | JF755293 | JF755138 |
| | | | ST1667 ^a | JF755300 | - |
| | | | ST1668 ^a | JF755301 | JF755137 |
| | | | ST1669 ^a | JF755302 | JF755139 |
| | | | ST1670 | - | JF755140 |
| | | | ST1676 ^a | JF755303 | - |
| <i>Cyanistes caeruleus</i> | Dibbeen (Jordan) | 8 | ST936 | EF523808 | JF755042 |
| | | | ST937 | EF523809 | - |
| | | | ST938 | EF523810 | JF755043 |
| | | | ST939 | EF523811 | JF755044 |
| | | | ST940 | EF523812 | JF755045 |
| | | | ST941 | EF523813 | JF755046 |
| | | | ST942 | EF523814 | - |
| | | | ST943 | EF523815 | - |
| | | | ST944 | EF523816 | JF755047 |
| | | | ST945 | EF523817 | JF755048 |
| | | | ST947 | EF523818 | - |
| <i>Cyanistes teneriffae</i> | Oulmes (Morocco) | 9 | ST239 ^b | AY538187 | - |
| <i>Cyanistes teneriffae</i> | Berkame (Morocco) | 10 | ST604 ^{ab} | JF755388 | - |
| | | | ST605 ^{ab} | JF755389 | - |
| <i>Cyanistes teneriffae</i> | Rabat (Morocco) | 11 | ST603 ^a | JF755333 | - |
| | | | ST1633 ^a | JF755334 | JF755106 |
| | | | ST1634 ^a | JF755337 | JF755107 |
| | | | ST1635 ^a | JF755336 | JF755108 |
| | | | ST1636 ^a | JF755335 | JF755109 |
| <i>Cyanistes teneriffae</i> | Tetuan (Morocco) | 12 | ST608 ^{ab} | JF755391 | - |
| | | | St609 ^{ab} | JF755392 | - |
| <i>Cyanistes teneriffae</i> | Exact location unknown (Morocco) | - | ST592 ^{ab} | JF755387 | - |
| | | | ST607 ^{ab} | JF755390 | - |
| <i>Cyanistes teneriffae</i> | Ceuta (North Africa, Spain) | 13 | ST897 | JF755345 | - |
| | | | ST898 | JF755346 | - |
| | | | ST899 | JF755347 | JF755101 |
| | | | ST900 | JF755348 | - |
| | | | ST901 | JF755349 | JF755102 |
| | | | ST902 | JF755350 | JF755103 |
| | | | ST903 | JF755351 | JF755104 |
| | | | ST904 | JF755352 | JF755105 |
| | | | ST905 | JF755353 | - |
| | | | ST906 | JF755354 | - |
| | | | ST1671 | JF755339 | - |
| | | | ST1672 | JF755344 | JF755110 |
| | | | ST1673 | JF755338 | - |
| | | | ST1674 | JF755340 | - |
| | | | ST1675 | JF755341 | - |
| | | | ST1680 | JF755342 | - |
| | | | ST1684 | JF755343 | - |
| <i>Cyanistes caeruleus</i> | Crete (Greece) | 14 | STGR1 ^a | JF755381 | JF755065 |
| | | | STGR2 ^a | JF755382 | JF755069 |
| | | | STGR3 ^a | JF755383 | JF755066 |
| | | | STGR4 ^a | JF755384 | JF755068 |

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|-----------------------------|-------------------------------|----|---------------------|----------|----------|
| | | | STGR5 ^a | JF755385 | JF755067 |
| | | | STGR7 ^a | JF755386 | - |
| | | | STGR8 ^a | JF755380 | - |
| <i>Cyanistes caeruleus</i> | Noor (Iran) | 15 | ST593 | EF523799 | - |
| | | | ST594 | EF523800 | - |
| | | | ST595 | EF523801 | JF755051 |
| | | | ST596 | EF523802 | - |
| | | | ST597 | EF523803 | JF755049 |
| | | | ST598 | EF523804 | - |
| | | | ST599 | EF523805 | JF755050 |
| | | | ST600 | EF523806 | - |
| | | | ST602 | EF523807 | - |
| <i>Cyanistes caeruleus</i> | Exact location unknown (Iran) | - | ST249 ^{ab} | JF755393 | - |
| | | | ST251 ^{ab} | JF755394 | - |
| | | | ST252 ^{ab} | JF755395 | - |
| <i>Cyanistes caeruleus</i> | Algeria | 16 | ST611 ^a | JF755317 | - |
| | | | ST612 | - | JF755099 |
| | | | ST613 | - | JF755098 |
| | | | ST614 ^a | JF755318 | - |
| | | | ST616 ^a | JF755319 | - |
| | | | ST618 ^a | JF755320 | - |
| | | | ST620 | - | JF755100 |
| | | | ST621 ^a | JF755321 | - |
| | | | ST626 ^a | JF755322 | - |
| | | | ST629 ^a | JF755323 | - |
| | | | ST634 ^a | JF755324 | - |
| | | | ST636 ^a | JF755325 | - |
| | | | ST638 ^a | JF755326 | - |
| | | | ST639 ^a | JF755327 | - |
| | | | ST640 ^a | JF755328 | - |
| | | | ST642 ^a | JF755329 | - |
| | | | ST648 ^a | JF755330 | - |
| | | | ST649 ^a | JF755331 | - |
| | | | ST651 ^a | JF755332 | - |
| <i>Cyanistes caeruleus</i> | Tunisia | 17 | ST237 ^b | AY538186 | - |
| <i>Cyanistes teneriffae</i> | Pantelleria Island (Italy) | 18 | ST668 ^a | JF755362 | JF755090 |
| | | | ST669 ^a | JF755363 | - |
| | | | ST670 ^a | JF755364 | JF755091 |
| | | | ST671 ^a | JF755365 | JF755092 |
| | | | ST672 ^a | JF755366 | - |
| | | | ST673 ^a | JF755367 | JF755093 |
| | | | ST674 ^a | JF755368 | JF755094 |
| | | | ST675 ^a | JF755369 | JF755095 |
| | | | ST676 ^a | JF755370 | JF755096 |
| | | | ST677 ^a | JF755371 | JF755097 |
| | | | ST678 ^a | JF755372 | - |
| | | | ST679 ^a | JF755373 | - |
| | | | ST681 ^a | JF755374 | - |
| | | | ST682 ^a | JF755375 | - |
| | | | ST683 ^a | JF755376 | - |
| | | | ST684 ^a | JF755377 | - |
| | | | ST685 ^a | JF755378 | - |
| | | | ST686 ^a | JF755379 | - |
| <i>Cyanistes caeruleus</i> | Granada (Spain) | 19 | ST1715IP | JF755215 | - |
| | | | ST1717IP | JF755216 | - |
| | | | ST1718IP | JF755217 | - |
| | | | ST1722IP | JF755218 | JF755061 |
| | | | ST1727IP | JF755219 | JF755062 |
| | | | ST1731IP | JF755220 | - |

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|----------------------------|------------------------------------|----------|---------------------|----------|-----------|
| <i>Cyanistes caeruleus</i> | Sevilla (Spain) | 20 | ST1706 | - | JF755056 |
| | | | ST1707 | - | JF755057 |
| | | | ST1709 ^a | JF755214 | - |
| <i>Cyanistes caeruleus</i> | Huelva (Spain) | 21 | ST254 | AY267106 | - |
| | | | ST255 | AY267107 | - |
| | | | ST257 | AY267108 | - |
| | | | ST258 | AY267109 | - |
| | | | ST259 | AY267110 | - |
| | | | ST261 | AY267111 | - |
| | | | ST262 | AY267112 | - |
| | | | ST263 | AY267113 | - |
| | | | ST264 | AY267114 | - |
| | | | ST265 | AY267115 | - |
| | | | ST266 | AY267116 | - |
| | | | ST267 | AY267117 | - |
| | | | ST269 | AY267118 | - |
| | | | ST270 | AY267119 | - |
| | | | ST271 | AY267120 | - |
| ST274 | AY267121 | - | | | |
| <i>Cyanistes caeruleus</i> | Orense (Spain) | 22 | ST1710 | - | JF755058 |
| <i>Cyanistes caeruleus</i> | Cadiz (Spain) | 23 | ST1711 ^a | JF755222 | - |
| | | | ST1716 ^a | JF755223 | JF755059 |
| | | | ST1719 ^a | JF755224 | - |
| | | | ST1720 ^a | JF755221 | JF755060 |
| | | | ST1729 | - | JF755063 |
| ST1730 | - | JF755064 | | | |
| <i>Cyanistes caeruleus</i> | Sicily (Italy) | 24 | ST654 ^a | JF755355 | JF755081- |
| | | | ST655 | - | JF755083 |
| | | | ST657 ^a | JF755356 | JF755082 |
| | | | ST658 | - | JF755084 |
| | | | ST659 ^a | JF755357 | JF755085 |
| | | | ST660 ^a | JF755358 | JF755086 |
| | | | ST661 | - | JF755087 |
| | | | ST662 | - | JF755088 |
| | | | ST663 ^a | JF755359 | JF755089 |
| | | | ST666 ^a | JF755360 | - |
| ST667 ^a | JF755361 | - | | | |
| <i>Cyanistes caeruleus</i> | Mallorca (Balearic Islands, Spain) | 25 | ST948 ^a | JF755225 | JF755077 |
| | | | ST949 ^a | JF755231 | JF755078 |
| | | | ST950 ^a | JF755230 | - |
| | | | ST951 ^a | JF755229 | - |
| | | | ST952 | - | JF755079 |
| | | | ST953 ^a | JF755228 | - |
| | | | ST954 ^a | JF755227 | - |
| | | | ST955 ^a | JF755226 | - |
| | | | ST956 ^a | JF755232 | - |
| | | | ST957 ^a | JF755235 | - |
| | | | ST958 ^a | JF755234 | - |
| | | | ST961 ^a | JF755233 | - |
| <i>Cyanistes caeruleus</i> | Madrid (Spain) | 26 | ST165 | AY267100 | - |
| | | | ST166 | AY267101 | - |
| | | | ST167 | AY267102 | - |
| | | | ST168 | AY267103 | - |
| | | | ST170 | AY267104 | - |
| | | | ST173 | AY267105 | - |
| <i>Cyanistes caeruleus</i> | Barcelona (Spain) | 27 | ST43 | AY267084 | - |
| | | | ST60 | AY267085 | - |
| | | | ST61 | AY267086 | - |
| | | | ST62 | AY267087 | - |
| | | | ST63 | AY267088 | - |

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|----------------------------|--------------------------------------|----|---------------------|----------|----------|
| | | | ST65 | AY267089 | - |
| | | | ST66 | AY267090 | - |
| | | | ST67 | AY267094 | - |
| | | | ST68 | AY267091 | - |
| | | | ST69 | AY267092 | - |
| | | | ST70 | AY267093 | - |
| | | | ST71 | AY267095 | - |
| | | | ST72 | AY267096 | - |
| | | | ST73 | AY267097 | - |
| | | | ST74 | AY267098 | - |
| | | | ST75 | AY267099 | - |
| <i>Cyanistes caeruleus</i> | Alijo (Portugal) | 28 | ST233 ^{ab} | JF755396 | - |
| <i>Cyanistes caeruleus</i> | Faraios (Portugal) | 29 | ST235 ^{ab} | JF755398 | - |
| <i>Cyanistes caeruleus</i> | Exact location unknown (Portugal) | - | ST234 ^{ab} | JF755397 | - |
| <i>Cyanistes caeruleus</i> | Camprodón (Spain) | 30 | ST27 | AY267083 | - |
| <i>Cyanistes caeruleus</i> | Pirio (Corsica, France) | 31 | ST97 | - | JF755070 |
| | | | ST100 | AY267058 | JF755071 |
| | | | ST101 | - | JF755072 |
| | | | ST102 | AY267059 | JF755073 |
| | | | ST103 | AY267060 | - |
| | | | ST104 | AY267061 | JF755074 |
| | | | ST105 | AY267062 | JF755075 |
| | | | ST106 | AY267063 | - |
| | | | ST107 | - | JF755076 |
| | | | ST108 | AY267064 | - |
| | | | ST109 | AY267065 | - |
| | | | ST110 | AY267066 | - |
| <i>Cyanistes caeruleus</i> | Muro (Corsica, France) | 32 | ST115 | AY267050 | - |
| | | | ST116 | AY267051 | - |
| | | | ST118 | AY267052 | - |
| | | | ST122 | AY267053 | - |
| | | | ST123 | AY267054 | - |
| | | | ST124 | AY267055 | - |
| | | | ST126 | AY267056 | - |
| <i>Cyanistes caeruleus</i> | Tavera (Corsica, France) | 33 | ST127 | AY267067 | - |
| | | | ST128 | AY267068 | - |
| | | | ST129 | AY267069 | - |
| | | | ST130 | AY267070 | - |
| | | | ST133 | AY267071 | - |
| | | | ST134 | AY267072 | - |
| | | | ST135 | AY267073 | - |
| | | | ST136 | AY267074 | - |
| <i>Cyanistes caeruleus</i> | Fango (Corsica, France) | 34 | ST142 | AY267075 | - |
| | | | ST143 | AY267076 | - |
| | | | ST144 | AY267077 | - |
| | | | ST145 | AY267078 | - |
| | | | ST146 | AY267079 | - |
| | | | ST147 | AY267080 | - |
| | | | ST149 | AY267081 | - |
| | | | ST150 | AY267082 | - |
| <i>Cyanistes caeruleus</i> | Preturo (L'Aquila, Italy) | 35 | ST306 | AY267124 | - |
| | | | ST312 | AY267130 | - |
| | | | ST313 | AY267131 | - |
| <i>Cyanistes caeruleus</i> | Tornimparte (L'Aquila, Italy) | 36 | ST304 | AY267122 | JF755080 |

| | | | | | |
|----------------------------|-------------------------------------|----|--|-----------------------|----------|
| | | | ST305 | AY267123 | - |
| | | | ST307 | AY267125 | - |
| | | | ST309 | AY267127 | - |
| | | | ST311 | AY267129 | - |
| <i>Cyanistes caeruleus</i> | Roio (L'Aquila, Italy) | 37 | ST308 | AY267126 | - |
| | | | ST310 | AY267128 | - |
| <i>Cyanistes caeruleus</i> | L'Aquila (Italy) | 38 | ST314 | AY267114 | - |
| <i>Cyanistes cyaneus</i> | Kirghizia | 39 | PC10 | DQ483106 | - |
| | | | PC19 | DQ483101 | JF755011 |
| | | | PC20 | DQ483102 | JF755012 |
| | | | PC21 | DQ483103 | JF755013 |
| | | | PC23 | DQ483104 | JF755014 |
| | | | PC24 | DQ483105 | JF755015 |
| <i>Cyanistes cyaneus</i> | Kazakhstan | 40 | PC18 | - | JF755010 |
| <i>Cyanistes caeruleus</i> | Montpellier (France) | 41 | ST82 | AY267042 | - |
| | | | ST83 | - | JF755052 |
| | | | ST84 | AY267043 | JF755053 |
| | | | ST85 | AY267044 | - |
| | | | ST86 | AY267045 | - |
| | | | ST87 | - | JF755054 |
| | | | ST88 | - | JF755055 |
| | | | ST89 | AY267046 | - |
| | | | ST91 | AY267047 | - |
| | | | ST95 | AY267048 | - |
| | | | ST96 | AY267049 | - |
| | | | ST152 | AY267035 | - |
| | | | ST153 | AY267036 | - |
| | | | ST154 | AY267037 | - |
| | | | ST158 | AY267038 | - |
| | | | ST160 | AY267039 | - |
| | | | ST161 | AY267040 | - |
| | | | ST162 | AY267041 | - |
| <i>Cyanistes cyaneus</i> | Mongolia | 42 | PC26 | DQ483107 | JF755016 |
| | | | PC27 | DQ483108 | JF755017 |
| <i>Cyanistes caeruleus</i> | Tübingen (Germany) | 43 | ST44 | AF068741 ^c | JF755034 |
| | | | ST45 | AF068741 ^c | JF755035 |
| | | | ST46 | AF068741 ^c | JF755036 |
| | | | ST47 | AF068741 ^c | JF755037 |
| | | | ST48 | AF068741 ^c | JF755038 |
| | | | ST49 | AF068741 ^c | JF755039 |
| | | | ST50 | AF068741 ^c | JF755040 |
| | | | ST51 | AF068741 ^c | JF755041 |
| <i>Cyanistes caeruleus</i> | Tomsk region, West-Siberia (Russia) | 44 | PC4 ^b , PC6 ^b | AY538193 AY538192 | - - |
| <i>Cyanistes cyaneus</i> | Amur (Russia) | 45 | PC11 | DQ483195 | - |
| | | | PC12 | DQ483196 | JF755007 |
| | | | PC13 | DQ483197 | - |
| | | | PC14 | DQ483198 | JF755008 |
| | | | PC15 | DQ483199 | - |
| | | | PC16 | DQ483100 | JF755009 |
| <i>Cyanistes caeruleus</i> | Glasgow (United Kingdom) | 46 | ST223 | AY136797 | - |
| | | | ST224 | AY136798 | - |
| | | | ST225 | AY136799 | - |
| | | | ST226 | - | JF755027 |
| | | | ST227 | AY136800 | JF755028 |

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|----------------------------|----------------------|----|-------------|-----------------------|----------|
| | | | ST228 | AY136801 | JF755029 |
| | | | ST229 | - | JF755030 |
| | | | ST230 | AY136802 | JF755031 |
| | | | ST231 | AY137803 | JF755032 |
| | | | ST232 | - | JF755033 |
| <i>Cyanistes caeruleus</i> | Gotland (Sweden) | 47 | ST38 | AF068741 ^c | - |
| | | | ST45 | AF068741 ^c | - |
| | | | ST46 | AF068741 ^c | - |
| | | | ST47 | AF068741 ^c | - |
| | | | ST48 | AF068741 ^c | - |
| <i>Cyanistes caeruleus</i> | Oslo (Norway) | 48 | ST21 | AF068741 ^c | - |
| | | | ST22 | AF068741 ^c | - |
| | | | ST23 | AF068741 ^c | - |
| | | | ST24 | AF068741 ^c | - |
| | | | ST25 | AF068741 ^c | - |
| | | | ST26 | AF068741 ^c | - |
| <i>Cyanistes caeruleus</i> | Uppsala (Sweden) | 49 | ST12 | AF068741 ^c | - |
| | | | ST13 | AF068741 ^c | - |
| | | | ST14 | AF068741 ^c | - |
| | | | ST16 | AF068741 ^c | - |
| | | | ST17 | AF068741 ^c | - |
| | | | ST18 | AF068741 ^c | - |
| | | | ST19 | AF068741 ^c | - |
| | | | ST20 | AF068741 ^c | - |
| <i>Cyanistes caeruleus</i> | Harjavalta (Finland) | 50 | ST57 | AF068741 ^c | - |
| <i>Cyanistes caeruleus</i> | Oulu (Finland) | 51 | ST11 | AF068741 ^c | - |
| | | | ST28 | AF068741 ^c | JF755018 |
| | | | ST29 | AF068741 ^c | JF755019 |
| | | | ST30 | AF068741 ^c | - |
| | | | ST31 | AF068741 ^c | - |
| | | | ST33 | AF068741 ^c | - |
| | | | ST34 | AF068741 ^c | - |
| | | | ST35 | AF068741 ^c | - |
| | | | ST37 | AF068741 ^c | - |
| | | | ST38 | AF068741 ^c | - |
| | | | ST275 | AF068741 ^c | JF755020 |
| | | | ST277 | AF068741 ^c | JF755021 |
| | | | ST279 | AF068741 ^c | JF755022 |
| | | | ST280 | AF068741 ^c | JF755023 |
| | | | ST282 | AF068741 ^c | JF755024 |
| | | | ST283 | AF068741 ^c | JF755025 |
| | | | ST284 | AF068741 ^c | JF755026 |
| <i>Parus major</i> | Oulu (Finland) | 51 | TT1174 | DQ020317 | - |
| | | | TT463 | - | JF755005 |
| | | | TT466 | - | JF755006 |
| <i>Poecile montanus</i> | Oulu (Finland) | 51 | OULU11 | AF354299 | - |
| | | | T44 | - | JF755004 |
| | | | T45 | - | JF755003 |
| | | | T46 | - | JF755002 |
| <i>Poecile palustris</i> | Pyrenees (Spain) | - | PA6 | AF354497 | - |
| <i>Carduelis corsicana</i> | Corsica, Sardinia | - | Isolate 242 | - | FJ817116 |
| | | - | Isolate 129 | - | FJ817117 |
| | | - | Isolate 136 | - | FJ817118 |
| <i>Carduelis carduelis</i> | Location unknown | - | Isolate 243 | - | FJ817119 |

^a CR sequenced for this study

^b Only a short sequence of 360bp, used for the haplotype network in Figure 3.

^c Accession number only for the consensus sequence, see Kvist et al. (1999) for variation

Supplementary Table 2. Pairwise Φ_{ST} values for the mtDNA (based on Tamura-Nei's distance method) among *Cyanistes* populations. Non significant pairwise values ($P > 0.01$) were marked in bold. NC, Nordic countries; GE, Germany; UK, United Kingdom; SP, Spain; MAL, Mallorca (Balearic Islands); FR, France; CO, Corsica; IT, Italy; SI, Sicily; GR, Greece; IR, Iran; JO, Jordan; MO, Morocco; AL, Algeria; PA, Pantelleria; FV, Fuerteventura; LZ, Lanzarote; GC, Gran Canaria; TF, Tenerife; LG, La Gomera; LP, La Palma; EH, El Hierro.

| | NC | GE | UK | SP | MAL | FR | CO | IT | SI | GR | IR | JO | MO | AL | PA | FV | LZ | GC | TF | LG | LP | EH | |
|---------------|------------------|------------------|------------------|------------------|------------------|-----------|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|----|----|----|----|--|
| Germany | 0.25 4 | | | | | | | | | | | | | | | | | | | | | | |
| UK | 0.41 7 | 0.46 8 | | | | | | | | | | | | | | | | | | | | | |
| Spain | 0.40 5 | 0.38 6 | 0.33 7 | | | | | | | | | | | | | | | | | | | | |
| Mallorca | 0.31 0 | 0.25 4 | 0.41 7 | 0.35 3 | | | | | | | | | | | | | | | | | | | |
| France | 0.02 7 | 0.01 4 | 0.43 6 | 0.40 8 | 0.16 6 | | | | | | | | | | | | | | | | | | |
| Corsica | 0.65 3 | 0.63 9 | 0.50 5 | 0.18 4 | 0.61 6 | 0.65 1 | | | | | | | | | | | | | | | | | |
| Italy | 0.70 7 | 0.68 5 | 0.56 3 | 0.11 2 | 0.66 6 | 0.71 4 | 0.20 9 | | | | | | | | | | | | | | | | |
| Sicily | 0.89 3 | 0.89 9 | 0.77 7 | 0.19 6 | 0.87 7 | 0.87 6 | 0.25 9 | 0.04 6 | | | | | | | | | | | | | | | |
| Greece | 0.53 9 | 0.55 8 | 0.05 5 | 0.38 9 | 0.57 5 | 0.46 6 | 0.55 3 | 0.63 4 | 0.85 1 | | | | | | | | | | | | | | |
| Iran | 0.72 6 | 0.65 9 | 0.44 8 | 0.33 1 | 0.59 4 | 0.66 0 | 0.50 1 | 0.51 0 | 0.72 1 | 0.59 6 | | | | | | | | | | | | | |
| Jordan | 0.72 6 | 0.72 8 | 0.51 6 | 0.36 1 | 0.66 2 | 0.70 1 | 0.53 3 | 0.58 4 | 0.79 4 | 0.66 0 | 0.28 5 | | | | | | | | | | | | |
| Morocco | 0.93 7 | 0.93 4 | 0.91 7 | 0.86 0 | 0.93 3 | 0.93 7 | 0.89 3 | 0.89 1 | 0.92 7 | 0.92 8 | 0.90 9 | 0.92 2 | | | | | | | | | | | |
| Algeria | 0.96 4 | 0.96 4 | 0.94 5 | 0.86 6 | 0.96 2 | 0.96 0 | 0.90 5 | 0.90 9 | 0.95 6 | 0.95 8 | 0.93 9 | 0.94 5 | 0.13 5 | | | | | | | | | | |
| Pantelleria | 0.97 3 | 0.97 7 | 0.96 2 | 0.88 3 | 0.97 4 | 0.97 2 | 0.91 9 | 0.92 9 | 0.97 0 | 0.97 2 | 0.95 3 | 0.96 4 | 0.64 8 | 0.78 3 | | | | | | | | | |
| Fuerteventura | 0.94 8 | 0.94 7 | 0.92 9 | 0.86 8 | 0.94 5 | 0.94 7 | 0.90 2 | 0.90 2 | 0.93 9 | 0.94 1 | 0.92 2 | 0.93 4 | 0.19 9 | 0.15 3 | 0.73 9 | | | | | | | | |
| Lanzarote | 0.99 1 | 0.99 5 | 0.98 0 | 0.88 5 | 0.99 1 | 0.98 5 | 0.92 5 | 0.94 3 | 0.98 8 | 0.99 0 | 0.97 1 | 0.98 0 | 0.27 3 | 0.11 9 | 0.91 6 | 0.23 0 | | | | | | | |
| Gran Canaria | 0.94 0 | 0.93 7 | 0.92 1 | 0.87 4 | 0.93 6 | 0.94 0 | 0.90 5 | 0.89 7 | 0.92 9 | 0.93 1 | 0.91 2 | 0.92 7 | 0.79 7 | 0.81 9 | 0.85 5 | 0.81 6 | 0.87 8 | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tenerife | 0.91 | 0.89 | 0.91 | 0.85 | 0.91 | 0.91 | 0.88 | 0.86 | 0.90 | 0.90 | 0.88 | 0.90 | 0.65 | 0.67 | 0.77 | 0.66 | 0.76 | 0.71 | | | | |
| | 6 | 2 | 1 | 1 | 1 | 7 | 3 | 9 | 2 | 4 | 6 | 0 | 5 | 6 | 7 | 4 | 2 | 3 | | | | |
| La Gomera | 0.97 | 0.98 | 0.96 | 0.88 | 0.97 | 0.97 | 0.92 | 0.93 | 0.97 | 0.97 | 0.95 | 0.96 | 0.83 | 0.89 | 0.93 | 0.85 | 0.96 | 0.78 | 0.45 | | | |
| | 9 | 1 | 6 | 4 | 8 | 4 | 1 | 3 | 4 | 6 | 7 | 7 | 8 | 4 | 7 | 7 | 4 | 0 | 3 | | | |
| La Palma | 0.94 | 0.94 | 0.92 | 0.82 | 0.94 | 0.94 | 0.87 | 0.87 | 0.92 | 0.93 | 0.91 | 0.92 | 0.89 | 0.92 | 0.94 | 0.90 | 0.95 | 0.89 | 0.84 | 0.92 | | |
| | 4 | 3 | 2 | 8 | 0 | 1 | 2 | 7 | 8 | 6 | 1 | 6 | 9 | 4 | 0 | 8 | 6 | 4 | 6 | 4 | | |
| El Hierro | 0.97 | 0.98 | 0.96 | 0.88 | 0.97 | 0.97 | 0.91 | 0.93 | 0.97 | 0.97 | 0.95 | 0.96 | 0.86 | 0.92 | 0.94 | 0.88 | 0.97 | 0.86 | 0.83 | 0.93 | 0.94 | |
| | 9 | 0 | 4 | 2 | 7 | 3 | 8 | 1 | 3 | 5 | 6 | 6 | 1 | 1 | 8 | 9 | 1 | 4 | 6 | 4 | 6 | |
| <i>C. cyanus</i> | 0.87 | 0.86 | 0.81 | 0.74 | 0.85 | 0.87 | 0.80 | 0.79 | 0.85 | 0.84 | 0.83 | 0.95 | 0.92 | 0.93 | 0.95 | 0.92 | 0.96 | 0.92 | 0.90 | 0.95 | 0.90 | 0.95 |
| | 0 | 3 | 8 | 9 | 7 | 2 | 0 | 1 | 5 | 1 | 5 | 1 | 3 | 7 | 1 | 9 | 2 | 4 | 3 | 1 | 9 | 6 |

Supplementary Table 3. Pairwise Φ_{ST} values for the nDNA (12884, based on Tamura-Nei's distance method) among *Cyanistes* populations. Non significant pairwise values ($P > 0.01$) were marked in bold. NC, Nordic countries; GE, Germany; UK, United Kingdom; SP, Spain; MAL, Mallorca (Balearic Islands); FR, France; CO, Corsica; IT, Italy; SI, Sicily; GR, Greece; IR, Iran; JO, Jordan; MO, Morocco; AL, Algeria; PA, Pantelleria; FV, Fuerteventura; LZ, Lanzarote; GC, Gran Canaria; TF, Tenerife; LG, La Gomera; LP, La Palma; EH, El Hierro.

| | NC | GE | UK | SP | MAL | FR | CO | IT | SI | GR | IR | JO | MO | AL | PA | FV | LZ | GC | TF | LG | LP | EH | |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|---------------|---------------|-------------|-------------|-------------|---------------|-------------|-------------|------|-------------|-------------|------|-------------|------|----|--|
| Germany | -0.019 | | | | | | | | | | | | | | | | | | | | | | |
| UK | 0.146 | -0.124 | | | | | | | | | | | | | | | | | | | | | |
| Spain | -0.014 | -0.041 | 0.135 | | | | | | | | | | | | | | | | | | | | |
| Mallorca | -0.148 | -0.184 | -0.003 | -0.118 | | | | | | | | | | | | | | | | | | | |
| France | -0.028 | -0.105 | -0.042 | -0.020 | 0.000 | | | | | | | | | | | | | | | | | | |
| Corsica | 0.399 | 0.290 | 0.487 | 0.083 | 0.651 | 0.717 | | | | | | | | | | | | | | | | | |
| Italy | -0.497 | -0.891 | -0.723 | -0.575 | 0.000 | 0.000 | 0.66 | | | | | | | | | | | | | | | | |
| Sicily | 0.003 | -0.036 | 0.033 | 0.095 | -0.165 | -0.159 | 0.53 | -0.750 | | | | | | | | | | | | | | | |
| Greece | 0.042 | -0.056 | 0.016 | 0.039 | 0.000 | 0.000 | 0.75 | 0.000 | -0.087 | | | | | | | | | | | | | | |
| Iran | 0.512 | 0.239 | 0.089 | 0.232 | 0.750 | 0.764 | 0.84 | 0.450 | 0.351 | 0.80 | | | | | | | | | | | | | |
| Jordan | 0.450 | 0.264 | 0.215 | 0.238 | -4.250 | 0.458 | 0.72 | -1.506 | 0.282 | 0.61 | 0.70 | | | | | | | | | | | | |
| Morocco | 0.605 | 0.487 | 0.393 | 0.524 | 0.503 | 0.516 | 0.64 | 0.311 | 0.580 | 0.54 | 0.41 | 0.58 | | | | | | | | | | | |
| Algeria | 0.812 | 0.610 | 0.466 | 0.543 | 0.802 | 0.838 | 0.86 | 0.602 | 0.789 | 0.86 | 0.78 | 0.84 | 0.004 | | | | | | | | | | |
| Pantelleria | 0.879 | 0.763 | 0.688 | 0.709 | 0.906 | 0.909 | 0.91 | 0.876 | 0.861 | 0.91 | 0.86 | 0.90 | | 0.52 | | | | | | | | | |
| Fuerteventura | 0.458 | 0.356 | 0.273 | 0.422 | 0.352 | 0.365 | 0.50 | 0.108 | 0.434 | 0.39 | 0.28 | 0.44 | -0.007 | 0.00 | 0.11 | | | | | | | | |
| Lanzarote | 0.935 | 0.856 | 0.817 | 0.797 | 0.970 | 0.971 | 0.96 | 0.965 | 0.928 | 0.97 | 0.96 | 0.95 | 0.388 | 0.32 | 0.87 | 0.30 | | | | | | | |
| Gran Canaria | 0.939 | 0.865 | 0.829 | 0.807 | 0.972 | 0.973 | 0.96 | 0.967 | 0.932 | 0.97 | 0.96 | 0.95 | 0.407 | 0.37 | 0.88 | 0.31 | 0.00 | | | | | | |
| Tenerife | 0.942 | 0.870 | 0.836 | 0.814 | 0.973 | 0.975 | 0.96 | 0.969 | 0.934 | 0.97 | 0.96 | 0.96 | 0.419 | 0.39 | 0.89 | 0.32 | 0.00 | 0.00 | | | | | |
| La Gomera | 0.962 | 0.939 | 0.930 | 0.908 | 0.972 | 0.973 | 0.97 | 0.969 | 0.958 | 0.97 | 0.96 | 0.96 | 0.816 | 0.98 | 0.96 | 0.70 | 0.99 | 0.99 | 0.99 | | | | |
| La Palma | 0.943 | 0.919 | 0.909 | 0.892 | 0.948 | 0.949 | 0.95 | 0.940 | 0.939 | 0.95 | 0.93 | 0.94 | 0.814 | 0.97 | 0.94 | 0.71 | 0.98 | 0.98 | 0.98 | 0.98 | 0.80 | | |
| El Hierro | 0.938 | 0.901 | 0.884 | 0.859 | 0.943 | 0.947 | 0.95 | 0.925 | 0.932 | 0.95 | 0.92 | 0.94 | 0.729 | 0.95 | 0.93 | 0.62 | 0.98 | 0.98 | 0.98 | 0.01 | 0.70 | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-----------|--------------|-------|-----------|-----------|-----------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <i>C. cyanus</i> | 0.961 | 0.925 | 0.916 | 0.879 | 0.982 | 0.983 | 0.97 6 | 0.979 | 0.956 | 0.98 4 | 0.97 3 | 0.97 4 | 0.764 | 0.96 1 | 0.96 2 | 0.64 2 | 0.98 5 | 0.98 5 | 0.98 6 | 0.94 8 | 0.91 9 | 0.92 0 |
|------------------|-------|-------|-------|-------|-------|-------|-----------|--------------|-------|-----------|-----------|-----------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

Supplementary Table 4. Taxa and sequences used for molecular dating. Cytochrome-b sequences by Dietzen et al. (2008) were added to our cyt-b data set for single locus dating with each haplotype represented by one sequence only (DQ473999-DQ474061; cyt-b sequences included in the multi-locus dating approach in bold; Gran Canarian population was not included). Cytb: cytochrome b; CR: control region; Fib7: b-fibrinogen intron 7.

| Tits and chickadees (Paridae) | Sample origin | Cytb | CR | Fib7 |
|--|----------------------|-------------|-----------|--------------|
| <i>Periparus ater ater</i> | Germany | GQ331061 | JF304544 | HQ41714 6 |
| <i>Periparus ater aemodius</i> | Nepal | DQ21873 | DQ466214 | HQ41714 7 |
| <i>Periparus ater melanolophus</i> | Nepal | DQ217867 | JF304545 | HQ41714 8 |
| <i>Periparus ater abietum</i> | Germany | DQ217844 | DQ466202 | HQ41715 0 |
| <i>Periparus ater atas</i> | Morocco | DQ217872 | DQ466213 | HQ41715 1 |
| <i>Periparus ater cypriotes</i> | Cyprus | GQ331068 | JF304546 | HQ41714 2 |
| <i>Periparus rubidiventris rubidiventris</i> | Nepal | DQ217866 | - | HQ41715 2 |
| <i>Periparus rubidiventris whistleri</i> | China | DQ217846 | DQ466199 | HQ41714 5 |
| <i>Periparus rufonuchalis</i> | Nepal | DQ217887 | DQ466200 | HQ41714 4 |
| <i>Parus major major</i> | Germany | JF828077 | - | HQ41716 1 |
| <i>Poecile atricapillus</i> | Canada | JF828072 | AF354496 | HQ41716 0 |
| <i>Poecile montanus kamtschatkensis</i> | Russia | JF828075 | AY732770 | HQ41715 9 |
| <i>Poecile montanus affinis</i> | China | JF828073 | AF354396 | HQ41715 |

| | | | | |
|--|---------------------------------|---|----------|--------------|
| | | | | 8 |
| <i>Poecile montanus weigoldicus</i> | China | JF828074 | - | HQ41714 3 |
| <i>Cyanistes teneriffae teneriffae</i> | Spain, Tenerife, La Gomera | DQ473999 DQ474001 DQ474002 DQ474006 DQ474009 DQ474010 DQ474011 DQ474012 DQ474013 | AY538200 | HQ41715 3 |
| <i>Cyanistes teneriffae palmensis</i> | Spain, La Palma | JF828079 DQ474045 DQ474061 | AY538215 | HQ41715 6 |
| <i>Cyanistes teneriffae ombriosus</i> | Spain, El Hierro | DQ474017 DQ474021 | AY538231 | HQ41715 5 |
| <i>Cyanistes teneriffae degener</i> | Spain, Fuerteventura, Lanzarote | JF828078 DQ474023 DQ474025 DQ474027 DQ474032 | AY538240 | HQ41715 4 |
| <i>Cyanistes teneriffae hedwigi</i> | Spain, Gran Canaria | DQ474052 DQ474053 DQ474054 DQ474055 DQ474058 DQ474059 DQ474053 | AY538249 | - |
| <i>Cyanistes caeruleus caeruleus</i> | Germany | JF828081 | JF828052 | JF828089 |
| <i>Cyanistes teneriffae ultramarinus</i> | Morocco | DQ474048 | AY538187 | - |
| <i>Cyanistes caeruleus calamensis</i> | Greece, Crete | JF828080 | JF828058 | - |
| <i>Cyanistes cyanus yensiseiensis</i> | Russia | JN392860 | DQ483107 | JN392866 |
| <i>Cyanistes cyanus tianshanicus</i> | Kyrgyzstan | JN392859 | DQ483106 | JN392865 |
| <i>Cyanistes cyanus flavipectus</i> | Kyrgyzstan | JN392858 | DQ483103 | JN392862 |

