**Приложение 2**. Значения попарной генетической дифференциации (*FST*) между выборками тихоокеанской сельди *Clupea pallasii* по микросателлитным маркерам

|  |  |  |
| --- | --- | --- |
| № | Выборка | Выборка |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | Ald2007 | \* |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2 | Ald2010 | 0.00101 | \* |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3 | Ald2011 | 0 | 0.00365 | \* |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4 | Ald2014 | 0 | 0.00237 | 0.00018 | \* |   |   |   |   |   |   |   |   |   |   |   |   |
| 5 | Vzmor2007 | 0 | 0.00075 | 0 | 0 | \* |   |   |   |   |   |   |   |   |   |   |   |
| 6 | Gizh2008 | 0.00132 | 0.00434 | **0.00486** | 0.00209 | 0.00216 | \* |   |   |   |   |   |   |   |   |   |   |
| 7 | Oh2009 | 0 | 0.00397 | 0 | 0.00270 | 0 | **0.00632** | \* |   |   |   |   |   |   |   |   |   |
| 8 | Tay2010 | 0.00108 | 0.00327 | 0.00125 | 0.00213 | 0.00143 | **0.00896** | 0.00179 | \* |   |   |   |   |   |   |   |   |
| 9 | Ain2010 | **0.02285** | **0.02554** | **0.02089** | **0.02546** | **0.02105** | **0.03172** | **0.02619** | **0.03108** | \* |   |   |   |   |   |   |   |
| 10 | Evensk2010 | 0.00256 | **0.01025** | **0.00622** | 0 | 0.00287 | 0.00463 | 0.00257 | **0.00968** | **0.03435** | \* |   |   |   |   |   |   |
| 11 | SevEvensk2007 | 0 | 0.00377 | 0.00106 | 0.00005 | 0.00283 | 0.00271 | 0.00271 | **0.01066** | **0.03250** | 0.00137 | \* |   |   |   |   |   |
| 12 | Vzmor2008 | 0.00029 | 0.00753 | 0.00394 | 0.00154 | 0.00372 | 0.00594 | **0.00723** | 0.00727 | **0.01979** | **0.00616** | 0.00517 | \* |   |   |   |   |
| 13 | Karagin | 0.00163 | **0.00948** | **0.00575** | **0.00547** | 0.00431 | 0.00458 | **0.00894** | **0.01378** | **0.03706** | 0.00342 | 0.00335 | **0.00949** | \* |   |   |   |
| 14 | Ussur2007 | **0.00642** | **0.01213** | **0.00647** | **0.00989** | 0.00336 | **0.01562** | **0.00625** | **0.00811** | **0.02575** | **0.01775** | **0.01487** | **0.01514** | **0.01940** | \* |   |   |
| 15 | Ussur2008 | **0.00773** | 0.00480 | **0.00646** | **0.00989** | 0.00308 | **0.01241** | **0.00947** | **0.00743** | **0.02201** | **0.01808** | **0.01306** | **0.00621** | **0.02043** | **0.00729** | \* |   |
| 16 | Krasnogsk2008 | **0.01015** | **0.01352** | **0.01046** | **0.01108** | **0.01000** | **0.01757** | **0.01370** | **0.01961** | **0.00704** | **0.01822** | **0.01451** | **0.01386** | **0.02044** | **0.01681** | **0.01752** | \* |
| 17 | Arkovo2007 | 0.00297 | 0.00496 | 0.00369 | 0.00273 | 0 | 0.00522 | **0.00653** | 0.00338 | **0.02513** | **0.00725** | 0.00442 | **0.00579** | **0.01002** | **0.01142** | 0.00472 | **0.01476** |
| 18 | Nyisk2010 | 0 | 0.00406 | 0.00156 | 0.00202 | 0.00357 | **0.00778** | 0.00278 | 0.00478 | **0.02238** | **0.00579** | **0.00514** | 0 | **0.01092** | **0.01086** | **0.00595** | **0.01297** |
| 19 | Chuktin2015 | **0.01566** | **0.01266** | **0.01667** | **0.01154** | **0.01609** | **0.01320** | **0.01837** | **0.01674** | **0.05211** | **0.01234** | **0.01317** | **0.02578** | **0.00992** | **0.03246** | **0.02846** | **0.03260** |
| 20 | Berkagan2011 | **0.01266** | **0.01604** | **0.01390** | **0.01272** | **0.01392** | **0.01114** | **0.01830** | **0.01509** | **0.04881** | **0.01792** | **0.01550** | **0.02162** | **0.00943** | **0.02848** | **0.03058** | **0.02909** |
| 21 | Bermtin2007 | **0.00862** | **0.01634** | **0.00990** | **0.01339** | **0.01235** | **0.01650** | **0.01232** | **0.01280** | **0.04433** | **0.01731** | **0.01230** | **0.01657** | **0.00560** | **0.02327** | **0.02470** | **0.02771** |
| 22 | Krugla2010 | 0 | 0.00469 | 0.00232 | 0 | 0 | 0.00268 | 0.00109 | 0.00162 | **0.02939** | **0.00514** | 0.00252 | **0.00373** | **0.00732** | **0.01267** | **0.01398** | **0.01669** |
| 23 | Tungus2009 | 0.00032 | 0.00563 | 0.00210 | 0.00289 | 0 | **0.00762** | 0.00213 | 0.00544 | **0.02394** | **0.00752** | **0.00745** | 0.00371 | **0.00789** | 0.00178 | **0.00937** | **0.01341** |
| 24 | Vilui2016 | **0.03347** | **0.03522** | **0.03613** | **0.02998** | **0.02566** | **0.03103** | **0.03380** | **0.03034** | **0.06391** | **0.02503** | **0.03492** | **0.02801** | **0.02888** | **0.04448** | **0.03601** | **0.05679** |
| 25 | Amur2009 | 0.00491 | **0.00886** | **0.00876** | **0.00776** | 0.00453 | **0.00950** | **0.01031** | **0.01358** | **0.02346** | **0.00797** | **0.01025** | 0.00239 | **0.01627** | **0.01335** | 0.00399 | **0.01895** |
| 26 | Nukla2007 | 0.00031 | 0.00392 | 0.00283 | 0 | 0 | 0.00009 | 0.00549 | 0.00280 | **0.02478** | 0.00535 | 0.00098 | 0.00062 | **0.00719** | **0.01182** | **0.00543** | **0.01426** |
| 27 | Aleks2009 | 0.00054 | **0.00641** | 0.00224 | 0.00176 | 0.00144 | 0.00474 | **0.00754** | 0.00767 | **0.02928** | 0.00248 | 0.00267 | **0.00584** | **0.00642** | **0.01445** | **0.00863** | **0.01292** |
| 28 | Kagan142\_2012 | 0 | 0.00541 | 0.00052 | 0.00240 | 0 | 0.00192 | 0.00038 | 0.00002 | **0.02378** | **0.00582** | 0.00353 | **0.00557** | **0.00851** | **0.00677** | **0.00743** | **0.01409** |
| 29 | Kagan151\_2012 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00241 | 0.00145 | **0.02069** | 0.00455 | -0.00049 | 0.00175 | 0.00417 | **0.01053** | **0.00554** | **0.00742** |
| 30 | Shilki2007 | 0 | **0.00870** | 0.00062 | 0.00015 | 0.00041 | 0.00655 | 0.00134 | 0.00474 | **0.02762** | 0.00162 | **0.00661** | 0.00251 | **0.00975** | **0.01111** | **0.01344** | **0.01337** |
| 31 | Shilki2008 | 0 | 0.00052 | 0 | 0 | 0 | 0.00402 | 0 | 0.00276 | **0.02407** | 0.00418 | 0.00131 | 0.00367 | **0.00652** | **0.00694** | **0.00720** | **0.00767** |

Продолжение приложения 2

|  |  |  |
| --- | --- | --- |
| № | Выборка | Выборка |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 1 | Ald2007 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2 | Ald2010 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3 | Ald2011 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4 | Ald2014 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5 | Vzmor2007 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6 | Gizh2008 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7 | Oh2009 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8 | Tay2010 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9 | Ain2010 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10 | Evensk2010 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 11 | SevEvensk2007 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12 | Vzmor2008 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 13 | Karagin |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 14 | Ussur2007 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 15 | Ussur2008 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 16 | Krasnogsk2008 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 17 | Arkovo2007 | \* |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 18 | Nyisk2010 | **0.00642** | \* |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 19 | Chuktin2015 | **0.02133** | **0.02364** | \* |   |   |   |   |   |   |   |   |   |   |   |   |
| 20 | Berkagan2011 | **0.02087** | **0.02192** | 0.00281 | \* |   |   |   |   |   |   |   |   |   |   |   |
| 21 | Bermtin2007 | **0.01626** | **0.01378** | **0.01078** | 0.00503 | \* |   |   |   |   |   |   |   |   |   |   |
| 22 | Krugla2010 | 0.00396 | 0.00264 | **0.01772** | **0.01562** | **0.01403** | \* |   |   |   |   |   |   |   |   |   |
| 23 | Tungus2009 | **0.00711** | 0.00309 | **0.02432** | **0.01370** | **0.01191** | 0.00361 | \* |   |   |   |   |   |   |   |   |
| 24 | Vilui2016 | **0.03094** | **0.02793** | **0.03393** | **0.03806** | **0.03550** | **0.03116** | **0.02992** | \* |   |   |   |   |   |   |   |
| 25 | Amur2009 | **0.00803** | 0.00205 | **0.03093** | **0.03260** | **0.02307** | **0.01129** | **0.01090** | **0.03090** | \* |   |   |   |   |   |   |
| 26 | Nukla2007 | 0 | **0.00480** | **0.01234** | **0.01527** | **0.01631** | 0.00199 | **0.00622** | **0.02923** | **0.00643** | \* |   |   |   |   |   |
| 27 | Aleks2009 | 0.00468 | 0.00403 | **0.01599** | **0.01702** | **0.01693** | **0.00715** | **0.00527** | **0.03129** | 0.00396 | 0.00260 | \* |   |   |   |   |
| 28 | Kagan142\_2012 | 0.00278 | **0.00728** | **0.01916** | **0.01634** | **0.01449** | 0.00216 | 0.00243 | **0.03470** | **0.01009** | 0.00071 | 0.00419 | \* |   |   |   |
| 29 | Kagan151\_2012 | 0 | 0.00323 | **0.01167** | **0.00915** | **0.01217** | 0 | 0.00278 | **0.03236** | **0.00828** | 0 | 0.00111 | 0.00016 | \* |   |   |
| 30 | Shilki2007 | **0.00529** | 0.00211 | **0.02184** | **0.01637** | **0.01429** | 0.00223 | 0.00114 | **0.03115** | **0.00621** | 0.00413 | 0.00241 | **0.00413** | 0.00078 | \* |   |
| 31 | Shilki2008 | 0.00237 | 0.00295 | **0.01551** | **0.01235** | **0.01184** | 0 | 0.00137 | **0.03462** | **0.00999** | 0.00072 | 0.00281 | 0.00204 | 0 | 0 | \* |

**Примечание**. Полужирным шрифтом выделены достоверные различия при *p* < 0.05.