**Приложение 1**. Генетическая характеристика исследованных выборок тихоокеанской сельди *Clupea pallasii* по микросателлитным локусам

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Выборка | *n*, экз. | *Na* | *Ne* | *Ho* | *He* | *F* | *HWE* |
| Ald2007 | 37.818 | 11.818 | 6.181 | 0.788 | 0.801 | 0.022 | Cpa108 |
| 0.122 | 1.060 | 0.764 | 0.043 | 0.033 | 0.023 |
| Ald2009 | 24.818 | 10.364 | 5.883 | 0.743 | 0.796 | 0.078 |  |
| 0.122 | 0.897 | 0.756 | 0.056 | 0.030 | 0.046 |
| Ald2010 | 23.000 | 10.545 | 6.518 | 0.727 | 0.786 | 0.085 | Cha1017, Cpa108 |
| 0.000 | 1.082 | 0.921 | 0.077 | 0.050 | 0.068 |
| Ald2011 | 48.000 | 12.455 | 6.544 | 0.780 | 0.799 | 0.025 | Cha1017, Cpa114, Cha1059 |
| 0.000 | 1.115 | 0.917 | 0.052 | 0.040 | 0.036 |
| Ald2014 | 43.000 | 12.091 | 6.595 | 0.710 | 0.809 | 0.132 | Cha1059, Cha1202 |
| 0.000 | 1.209 | 0.868 | 0.064 | 0.032 | 0.059 |
| Vzmor2007 | 41.727 | 11.727 | 6.433 | 0.737 | 0.800 | 0.082 | Cha1202 |
| 0.141 | 1.028 | 0.851 | 0.057 | 0.041 | 0.045 |
| Gizh2008 | 41.000 | 11.545 | 6.658 | 0.761 | 0.813 | 0.069 | Cpa104 |
| 0.000 | 1.003 | 0.873 | 0.051 | 0.031 | 0.043 |
| Oh2009 | 32.000 | 9.909 | 5.489 | 0.750 | 0.771 | 0.037 | Cha1059 |
| 0.000 | 0.744 | 0.760 | 0.055 | 0.040 | 0.029 |
| Tay2010 | 21.727 | 10.364 | 5.852 | 0.710 | 0.791 | 0.103 | Cpa112, Cha1059, Cha1202 |
| 0.195 | 0.897 | 0.787 | 0.044 | 0.031 | 0.041 |
| Ain2010 | 42.000 | 11.545 | 5.566 | 0.727 | 0.760 | 0.039 | Cha1059 |
| 0.000 | 0.976 | 0.781 | 0.058 | 0.054 | 0.033 |
| Evensk2010 | 29.818 | 11.455 | 6.192 | 0.773 | 0.805 | 0.039 | Cha1059 |
| 0.182 | 1.073 | 0.771 | 0.038 | 0.029 | 0.034 |
| SevEvensk2007 | 47.455 | 12.818 | 6.524 | 0.763 | 0.807 | 0.060 | Cha1059, Cha1202 |
| 0.366 | 1.320 | 0.952 | 0.053 | 0.030 | 0.045 |
| Vzmor2008 | 37.909 | 11.455 | 6.445 | 0.765 | 0.810 | 0.057 | Cha1202 |
| 0.091 | 0.938 | 0.854 | 0.041 | 0.030 | 0.030 |
| Karagin | 38.545 | 11.364 | 5.893 | 0.776 | 0.789 | 0.025 |  |
| 0.312 | 0.937 | 0.789 | 0.055 | 0.034 | 0.038 |
| Ussur2007 | 36.727 | 10.727 | 4.987 | 0.793 | 0.746 | -0.073 |  |
| 0.195 | 1.129 | 0.749 | 0.038 | 0.041 | 0.034 |
| Ussur2008 | 40.818 | 12.182 | 6.578 | 0.778 | 0.800 | 0.027 | Cpa104 |
| 0.182 | 1.069 | 0.913 | 0.049 | 0.039 | 0.038 |
| Krasnogsk2008 | 41.909 | 10.545 | 5.447 | 0.752 | 0.761 | 0.013 |  |
| 0.091 | 0.888 | 0.753 | 0.060 | 0.048 | 0.040 |
| Arkovo2007 | 41.000 | 12.636 | 6.915 | 0.741 | 0.816 | 0.097 | Cpa112, Cha1059, Cha1202 |
| 0.000 | 1.252 | 0.915 | 0.048 | 0.033 | 0.036 |
| Nyisk2010 | 42.818 | 11.636 | 6.170 | 0.775 | 0.793 | 0.019 | Cha1059, Cha1202 |
| 0.182 | 1.323 | 0.816 | 0.050 | 0.038 | 0.048 |
| Chuktin2015 | 28.909 | 9.818 | 5.692 | 0.735 | 0.795 | 0.087 | Cha1017 |
| 0.091 | 0.851 | 0.614 | 0.056 | 0.028 | 0.049 |
| Berkagan2011 | 45.818 | 11.455 | 5.485 | 0.740 | 0.778 | 0.054 |  |
| 0.122 | 1.030 | 0.661 | 0.048 | 0.036 | 0.031 |
| Bermtin2007 | 42.000 | 11.091 | 5.207 | 0.755 | 0.772 | 0.029 |  |
| 0.000 | 1.083 | 0.625 | 0.054 | 0.033 | 0.043 |
| Krugla2010 | 45.545 | 12.364 | 6.261 | 0.781 | 0.792 | 0.013 |  |
| 0.207 | 1.216 | 0.855 | 0.048 | 0.039 | 0.039 |
| Tungus2009 | 37.727 | 11.909 | 5.808 | 0.769 | 0.768 | -0.001 | Cha1059 |
| 0.141 | 1.268 | 0.909 | 0.054 | 0.045 | 0.034 |
| Vilui2016 | 38.727 | 10.182 | 5.290 | 0.661 | 0.784 | 0.156 | Cha1017, Cha1059, Cha1202 |
| 0.141 | 0.872 | 0.555 | 0.058 | 0.027 | 0.070 |
| Amur2009 | 43.545 | 12.182 | 6.767 | 0.744 | 0.809 | 0.086 | Cha1017, Cha1059, Cha1202 |
| 0.282 | 1.174 | 0.959 | 0.056 | 0.035 | 0.047 |
| Nukla2007 | 46.818 | 12.727 | 7.020 | 0.750 | 0.829 | 0.104 | Cha1017, Cha1059, Cha1202 |
| 0.122 | 1.096 | 0.873 | 0.060 | 0.024 | 0.057 |
| Aleks2009 | 42.545 | 12.545 | 6.641 | 0.776 | 0.819 | 0.053 | Cha1202 |
| 0.247 | 0.966 | 0.816 | 0.043 | 0.028 | 0.039 |
| Kagan142\_2012 | 47.455 | 12.545 | 6.385 | 0.750 | 0.804 | 0.071 | Cha1059, Cha1202 |
| 0.312 | 1.123 | 0.858 | 0.051 | 0.035 | 0.041 |
| Kagan151\_2012 | 44.909 | 13.545 | 7.111 | 0.746 | 0.813 | 0.091 | Cha1059, Cha1202 |
| 0.091 | 1.296 | 0.998 | 0.062 | 0.037 | 0.050 |
| Shilki2007 | 45.455 | 12.364 | 6.316 | 0.736 | 0.789 | 0.065 | Cha1017 |
| 0.366 | 1.295 | 0.904 | 0.050 | 0.045 | 0.032 |
| Shilki2008 | 41.364 | 11.818 | 5.998 | 0.745 | 0.790 | 0.054 |  |
| 0.453 | 0.913 | 0.739 | 0.047 | 0.040 | 0.038 |

**Примечание**. Над чертой – среднее значение, под чертой − стандартная ошибка; *n* – число исследованных рыб, *Na* – число аллелей, *Nе* – число эффективных аллелей, *Ho* – средняя наблюдаемая гетерозиготность, *He* – средняя ожидаемая гетерозиготность, *F* – индекс фиксации, *HWE* – локусы, в которых наблюдается отклонение от равновесия Харди−Вайнберга.