|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| West subregion | | | | | | | | | | | | |
| Model | Blue shark CPUE | | | Blue shark CPUE | | | Mako CPUE | | | Mako CPUE | | |
| Explanatory variables | (1|Vessel) + Year + Month + Fleet + Observer | | |  |  |  |  |  |  |  |  |  |
| Error | Binomial |  |  | Gamma |  |  | Binomial |  |  | Gamma |  |  |
| Link | Logit |  |  | Log |  |  | Logit |  |  | Log |  |  |
| BIC | 4 102 |  |  | 18 151 |  |  | 5 599 |  |  | 18 146 |  |  |
|  | Estimate | Std. Error | Pr(>|z|) | Estimate | Std. Error | Pr(>|z|) | Estimate | Std. Error | Pr(>|z|) | Estimate | Std. Error | Pr(>|z|) |
| 2000 | -1.6724 | 0.6411 | 0.0091 | 1.8840 | 0.3483 | 0.0000 | -0.9918 | 0.3670 | 0.0069 | 1.2749 | 0.1887 | 0.0000 |
| 2001 | -2.4627 | 0.6423 | 0.0001 | 2.1045 | 0.3536 | 0.0000 | -1.5258 | 0.3611 | 0.0000 | 0.9530 | 0.1862 | 0.0000 |
| 2002 | -1.0668 | 0.6225 | 0.0865 | 2.6114 | 0.3616 | 0.0000 | -1.9297 | 0.3600 | 0.0000 | 0.7403 | 0.1898 | 0.0001 |
| 2003 | -0.5088 | 0.6146 | 0.4078 | 3.0301 | 0.3509 | < 2e-16 | -1.0136 | 0.3456 | 0.0034 | 1.4554 | 0.1811 | 0.0000 |
| 2004 | 0.1797 | 0.6189 | 0.7716 | 3.2623 | 0.3454 | < 2e-16 | -0.5029 | 0.3405 | 0.1397 | 1.7417 | 0.1787 | < 2e-16 |
| 2005 | -0.7338 | 0.6448 | 0.2551 | 3.7329 | 0.3457 | < 2e-16 | -0.9734 | 0.3656 | 0.0078 | 1.5188 | 0.1960 | 0.0000 |
| 2006 | 0.0967 | 0.6887 | 0.8883 | 3.7050 | 0.3731 | < 2e-16 | -0.5618 | 0.4020 | 0.1623 | 1.7259 | 0.2093 | < 2e-16 |
| 2007 | -2.1923 | 0.6364 | 0.0006 | 2.4398 | 0.3431 | 0.0000 | -1.1820 | 0.3651 | 0.0012 | 1.5034 | 0.1966 | 0.0000 |
| 2008 | -2.2265 | 0.6571 | 0.0007 | 3.0659 | 0.3352 | < 2e-16 | -2.2261 | 0.3886 | 0.0000 | 1.1640 | 0.2035 | 0.0000 |
| 2009 | -2.4620 | 0.6647 | 0.0002 | 2.9467 | 0.3738 | 0.0000 | -0.9236 | 0.3860 | 0.0167 | 1.3129 | 0.2022 | 0.0000 |
| 2010 | -2.6038 | 0.6858 | 0.0001 | 4.1020 | 0.4152 | < 2e-16 | 0.2147 | 0.4022 | 0.5934 | 1.4203 | 0.1995 | 0.0000 |
| 2011 | 2.6493 | 0.6821 | 0.0001 | 5.3237 | 0.3621 | < 2e-16 | -0.2186 | 0.4016 | 0.5863 | 1.7939 | 0.2036 | < 2e-16 |
| 2012 | 2.4269 | 0.6991 | 0.0005 | 5.0944 | 0.3602 | < 2e-16 | 0.8705 | 0.4556 | 0.0561 | 1.6510 | 0.2031 | 0.0000 |
| 2013 | 1.9967 | 0.6714 | 0.0029 | 4.1723 | 0.3562 | < 2e-16 | 1.5285 | 0.4328 | 0.0004 | 1.7900 | 0.1979 | < 2e-16 |
| 2014 | 2.0787 | 0.6633 | 0.0017 | 4.5300 | 0.3540 | < 2e-16 | 1.5321 | 0.4111 | 0.0002 | 1.9277 | 0.1932 | < 2e-16 |
| 2015 | 1.6587 | 0.6178 | 0.0073 | 3.9258 | 0.3301 | < 2e-16 | 2.9440 | 0.4565 | 0.0000 | 2.1116 | 0.1754 | < 2e-16 |
| January | - | - | - | - | - | - | - | - | - | - | - | - |
| February | 0.3212 | 0.4531 | 0.4784 | 0.0043 | 0.1889 | 0.9819 | 0.4587 | 0.3205 | 0.1523 | -0.1606 | 0.1369 | 0.2407 |
| March | 1.9094 | 0.3519 | 0.0000 | -0.4396 | 0.1865 | 0.0184 | 0.2054 | 0.3081 | 0.5051 | 0.4465 | 0.1270 | 0.0004 |
| April | 1.1784 | 0.2826 | 0.0000 | -0.8726 | 0.1665 | 0.0000 | 0.1997 | 0.2489 | 0.4223 | 0.0555 | 0.1050 | 0.5975 |
| May | 0.9102 | 0.2412 | 0.0002 | -0.6700 | 0.1469 | 0.0000 | 0.3714 | 0.2097 | 0.0765 | 0.2156 | 0.0895 | 0.0160 |
| June | 0.5696 | 0.2295 | 0.0131 | -0.6550 | 0.1504 | 0.0000 | 0.3763 | 0.1948 | 0.0534 | -0.1163 | 0.0861 | 0.1770 |
| July | 0.6302 | 0.2291 | 0.0060 | -0.6321 | 0.1526 | 0.0000 | 0.5693 | 0.1942 | 0.0034 | -0.2343 | 0.0862 | 0.0065 |
| August | 0.9314 | 0.2393 | 0.0001 | -0.3559 | 0.1559 | 0.0224 | 0.7170 | 0.2039 | 0.0004 | 0.0862 | 0.0893 | 0.3346 |
| September | 1.0748 | 0.2587 | 0.0000 | -0.2686 | 0.1669 | 0.1076 | 0.5382 | 0.2181 | 0.0136 | 0.1183 | 0.0969 | 0.2224 |
| October | 0.4968 | 0.2601 | 0.0562 | -0.7184 | 0.1608 | 0.0000 | -0.1028 | 0.2158 | 0.6339 | -0.0690 | 0.0998 | 0.4892 |
| November | 0.3413 | 0.2649 | 0.1976 | -0.7061 | 0.1634 | 0.0000 | 0.2634 | 0.2173 | 0.2254 | -0.0048 | 0.0959 | 0.9597 |
| December | 0.3282 | 0.2625 | 0.2112 | -0.8124 | 0.1623 | 0.0000 | 0.3379 | 0.2286 | 0.1393 | -0.1654 | 0.0961 | 0.0853 |
| Fleet - Local | 0.0650 | 0.4278 | 0.8793 | 0.4064 | 0.3093 | 0.1888 | 0.5392 | 0.2128 | 0.0113 | -0.0078 | 0.1162 | 0.9468 |
| Fleet - Foreign | - | - | - | - | - | - | - | - | - | - | - | - |
| Observer - Unknown | - | - | - | - | - | - | - | - | - | - | - | - |
| Observer - No | -0.3864 | 0.1992 | 0.0525 | -0.3426 | 0.1041 | 0.0010 | 0.4909 | 0.1451 | 0.0007 | 0.1510 | 0.0757 | 0.0461 |
| Observer - Yes | -0.2058 | 0.2098 | 0.3267 | -0.4294 | 0.1158 | 0.0002 | 0.3239 | 0.1548 | 0.0364 | 0.0142 | 0.0804 | 0.8597 |