|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Southwest 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 | 2 157 |  |  | 22 839 |  |  | 2 503 |  |  | 22 603 |  |  |
|  | Estimate | Std. Error | Pr(>|z|) | Estimate | Std. Error | Pr(>|z|) | Estimate | Std. Error | Pr(>|z|) | Estimate | Std. Error | Pr(>|z|) |
| 2000 | -1.7298 | 0.9438 | 0.0668 | 0.6507 | 0.3463 | 0.0602 | -0.9409 | 0.6318 | 0.1364 | -0.1675 | 0.3861 | 0.6644 |
| 2001 | -2.3668 | 0.9310 | 0.0110 | 0.3353 | 0.2914 | 0.2498 | -1.4484 | 0.5897 | 0.0140 | -0.2039 | 0.3566 | 0.5676 |
| 2002 | -0.3023 | 1.0279 | 0.7687 | 0.9262 | 0.3144 | 0.0032 | -1.9781 | 0.6672 | 0.0030 | -0.3020 | 0.3922 | 0.4413 |
| 2003 | 0.4570 | 0.9623 | 0.6349 | 1.2883 | 0.2930 | 0.0000 | -1.3782 | 0.6231 | 0.0270 | 0.9457 | 0.3958 | 0.0169 |
| 2004 | -0.2576 | 1.0204 | 0.8007 | 1.8143 | 0.3242 | 0.0000 | -1.1276 | 0.7460 | 0.1306 | 1.9165 | 0.4014 | 0.0000 |
| 2005 | 2.4026 | 1.0036 | 0.0167 | 1.8552 | 0.2674 | 0.0000 | -0.4122 | 0.6209 | 0.5068 | 2.0321 | 0.3581 | 0.0000 |
| 2006 | 1.8675 | 0.9640 | 0.0527 | 1.2298 | 0.2755 | 0.0000 | -0.2181 | 0.6075 | 0.7196 | 1.4352 | 0.3628 | 0.0001 |
| 2007 | 1.0650 | 0.9218 | 0.2479 | 1.0865 | 0.2667 | 0.0000 | 0.4583 | 0.5863 | 0.4344 | 1.8768 | 0.3545 | 0.0000 |
| 2008 | 2.0863 | 0.9984 | 0.0367 | 2.4108 | 0.2722 | < 2e-16 | 0.6396 | 0.6274 | 0.3080 | 1.9407 | 0.3621 | 0.0000 |
| 2009 | 0.7607 | 0.9366 | 0.4167 | 2.5789 | 0.2705 | < 2e-16 | 1.1435 | 0.6013 | 0.0572 | 1.6467 | 0.3570 | 0.0000 |
| 2010 | 2.2148 | 0.9291 | 0.0171 | 2.6945 | 0.2585 | < 2e-16 | 1.7863 | 0.6069 | 0.0032 | 1.5757 | 0.3506 | 0.0000 |
| 2011 | 3.7360 | 0.9499 | 0.0001 | 3.0676 | 0.2688 | < 2e-16 | 3.0551 | 0.6478 | 0.0000 | 2.1347 | 0.3537 | 0.0000 |
| 2012 | 5.0124 | 0.9902 | 0.0000 | 2.9781 | 0.2738 | < 2e-16 | 3.1413 | 0.7768 | 0.0001 | 1.7869 | 0.3588 | 0.0000 |
| 2013 | 4.8754 | 1.0009 | 0.0000 | 3.3103 | 0.2773 | < 2e-16 | 2.9184 | 0.7566 | 0.0001 | 2.1073 | 0.3599 | 0.0000 |
| 2014 | 4.3041 | 0.9623 | 0.0000 | 3.4192 | 0.2711 | < 2e-16 | 2.9320 | 0.6532 | 0.0000 | 1.8089 | 0.3557 | 0.0000 |
| 2015 | 5.7851 | 0.8623 | 0.0000 | 3.0259 | 0.2383 | < 2e-16 | 5.9452 | 0.6984 | < 2e-16 | 2.2666 | 0.3341 | 0.0000 |
| January | - | - | - | - | - | - | - | - | - | - | - | - |
| February | 0.0595 | 0.4166 | 0.8864 | -0.1308 | 0.0947 | 0.1670 | -0.9847 | 0.3301 | 0.0029 | 0.0937 | 0.1009 | 0.3530 |
| March | -0.4582 | 0.3485 | 0.1886 | -0.2124 | 0.0852 | 0.0127 | -0.8663 | 0.2948 | 0.0033 | 0.1405 | 0.0887 | 0.1131 |
| April | -0.4813 | 0.3420 | 0.1593 | -0.1463 | 0.0897 | 0.1028 | -0.9721 | 0.2982 | 0.0011 | -0.0125 | 0.0910 | 0.8912 |
| May | -0.3357 | 0.4357 | 0.4410 | -0.1129 | 0.1003 | 0.2607 | -0.4733 | 0.3491 | 0.1752 | 0.1173 | 0.1001 | 0.2413 |
| June | 0.1514 | 0.4440 | 0.7331 | -0.2614 | 0.1055 | 0.0133 | -0.6949 | 0.3864 | 0.0721 | 0.2640 | 0.1068 | 0.0134 |
| July | -0.6305 | 0.3873 | 0.1036 | -0.3047 | 0.0991 | 0.0021 | -0.6224 | 0.3451 | 0.0713 | 0.2113 | 0.0990 | 0.0327 |
| August | -0.0696 | 0.3591 | 0.8464 | -0.6228 | 0.1057 | 0.0000 | 0.3057 | 0.3260 | 0.3485 | 0.5500 | 0.0983 | 0.0000 |
| September | -0.0194 | 0.3660 | 0.9577 | -0.5146 | 0.0994 | 0.0000 | -0.0748 | 0.3183 | 0.8143 | 0.2492 | 0.0957 | 0.0092 |
| October | -0.7337 | 0.3482 | 0.0351 | -0.5432 | 0.0931 | 0.0000 | -1.1025 | 0.2825 | 0.0001 | 0.1240 | 0.0922 | 0.1786 |
| November | 0.1771 | 0.3457 | 0.6085 | -0.2808 | 0.0896 | 0.0017 | -0.8316 | 0.3039 | 0.0062 | 0.3073 | 0.0909 | 0.0007 |
| December | -0.6400 | 0.3751 | 0.0879 | -0.0827 | 0.0964 | 0.3910 | -1.3543 | 0.2983 | 0.0000 | 0.0236 | 0.0999 | 0.8131 |
| Fleet - Local | -2.7669 | 0.8360 | 0.0009 | 1.3508 | 0.2654 | 0.0000 | -0.5037 | 0.4926 | 0.3066 | -0.4588 | 0.3378 | 0.1744 |
| Fleet - Foreign | - | - | - | - | - | - | - | - | - | - | - | - |
| Observer - Unknown | - | - | - | - | - | - | - | - | - | - | - | - |
| Observer - No | 1.2259 | 0.4364 | 0.0050 | -0.1476 | 0.1346 | 0.2728 | 1.4495 | 0.2717 | 0.0000 | 0.1615 | 0.1291 | 0.2109 |
| Observer - Yes | 0.7737 | 0.4504 | 0.0858 | -0.1150 | 0.1395 | 0.4099 | 0.8201 | 0.2730 | 0.0027 | 0.0561 | 0.1316 | 0.6701 |