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| --- | --- | --- | --- | --- | --- |
| Model | Formula | AIC | Distribution | Link | deltaAIC |
| M\_gamma\_6 | ~ CPUE Temperature + I(Temperature^2) \* WaterLevel + I(WaterLevel^2) + Year | 691.601467 | gamma | log | 0 |
| M\_gamma\_8 | ~ CPUE Temperature \* I(Temperature^2) \* WaterLevel + I(WaterLevel^2) + Year | 695.62197 | gamma | log | 4.02050334 |
| M\_gamma\_9 | ~ CPUE Temperature \* I(Temperature^2) \* WaterLevel + I(WaterLevel^2) + factor(Year) | 701.492545 | gamma | log | 9.89107877 |
| M\_gamma\_7 | ~ CPUE Temperature \* I(Temperature^2) \* WaterLevel \* I(WaterLevel^2) \* Year | 703.50948 | gamma | log | 11.9080134 |
| M\_gamma\_3 | ~ CPUE Temperature + I(Temperature^2) + WaterLevel + Year | 705.312414 | gamma | log | 13.7109475 |
| M\_gamma\_5 | ~ CPUE Temperature + I(Temperature^2) + WaterLevel + I(WaterLevel^2) + Year | 706.11696 | gamma | log | 14.5154934 |
| M\_gamma\_10 | ~ CPUE Temperature \* I(Temperature^2) \* WaterLevel \* I(WaterLevel^2) \* factor(Year) | 712.483169 | gamma | log | 20.8817026 |
| M\_gamma\_2 | ~ CPUE Temperature \* WaterLevel + Year | 792.782414 | gamma | log | 101.180947 |
| M\_gamma\_1 | ~ CPUE Temperature + WaterLevel + Year | 794.327801 | gamma | log | 102.726334 |
| M\_gamma\_4 | ~ CPUE Temperature + WaterLevel + I(WaterLevel^2) + Year | 794.880131 | gamma | log | 103.278664 |
| M19 | ~ CPUE Temperature \* I(Temperature^2) \* WaterLevel + I(WaterLevel^2) + factor(Year) | 1499.18779 | gaussian | identity | 807.586328 |
| M18 | ~ CPUE Temperature \* I(Temperature^2) \* WaterLevel + I(WaterLevel^2) + Year | 1693.22607 | gaussian | identity | 1001.62461 |
| M16 | ~ CPUE Temperature + I(Temperature^2) \* WaterLevel + I(WaterLevel^2) + Year | 1715.70043 | gaussian | identity | 1024.09896 |
| M15 | ~ CPUE Temperature + I(Temperature^2) + WaterLevel + I(WaterLevel^2) + Year | 1724.66931 | gaussian | identity | 1033.06784 |
| M13 | ~ CPUE Temperature + I(Temperature^2) + WaterLevel + Year | 1739.84141 | gaussian | identity | 1048.23995 |
| M8 | ~ CPUE Temperature \* I(Temperature^2) \* WaterLevel + I(WaterLevel^2) + Year | 1748.61545 | gaussian | identity | 1057.01398 |
| M2 | ~ CPUE Temperature \* WaterLevel + Year | 1748.88938 | gaussian | identity | 1057.28791 |
| M9 | ~ CPUE Temperature \* I(Temperature^2) \* WaterLevel + I(WaterLevel^2) + factor(Year) | 1752.42573 | gaussian | identity | 1060.82427 |
| M14 | ~ CPUE Temperature + WaterLevel + I(WaterLevel^2) + Year | 1752.56203 | gaussian | identity | 1060.96056 |
| M6 | ~ CPUE Temperature + I(Temperature^2) \* WaterLevel + I(WaterLevel^2) + Year | 1753.98728 | gaussian | identity | 1062.38581 |
| M7 | ~ CPUE Temperature \* I(Temperature^2) \* WaterLevel \* I(WaterLevel^2) \* Year | 1757.62875 | gaussian | identity | 1066.02728 |
| M12 | ~ CPUE Temperature \* WaterLevel + Year | 1762.66176 | gaussian | identity | 1071.0603 |
| M11 | ~ CPUE Temperature + WaterLevel + Year | 1763.40638 | gaussian | identity | 1071.80491 |
| M3 | ~ CPUE Temperature + I(Temperature^2) + WaterLevel + Year | 1773.58465 | gaussian | identity | 1081.98318 |
| M1 | ~ CPUE Temperature + WaterLevel + Year | 1774.01577 | gaussian | identity | 1082.41431 |
| M5 | ~ CPUE Temperature + I(Temperature^2) + WaterLevel + I(WaterLevel^2) + Year | 1774.66385 | gaussian | identity | 1083.06238 |
| M4 | ~ CPUE Temperature + WaterLevel + I(WaterLevel^2) + Year | 1775.19049 | gaussian | identity | 1083.58903 |
| M10 | ~ CPUE Temperature \* I(Temperature^2) \* WaterLevel \* I(WaterLevel^2) \* factor(Year) | 1823.36379 | gaussian | identity | 1131.76232 |
| M17 | ~ CPUE Temperature \* I(Temperature^2) \* WaterLevel \* I(WaterLevel^2) \* Year | 144524.334 | gaussian | identity | 143832.732 |