**S9** Standardized log-odds-ratio (LOR) chi square (*X2*) statistics and the associated two-sided-*p*-values to test for “transience” and “trap-dependence” for MARK formulation at both sampling sites and during each sampling period at Malbato. Significant results are marked in bold.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Test for Transience** |  | **Test for Trap-dependence** |  |
| **Sampling site** | **Sampling period** | **Age class** | ***X2*** | ***p-value*** | ***X2*** | ***p-value*** |
| Malbato | All together (2022-2023) | - | 4.172 | **0.003\*** | -4.0935 | **0.004\*** |
|  |  |  |  |  |  |  |
| Malbato | April-July 2022 | Adults | 0.757 | 0.449 | -1.246 | 0.213 |
|  |  | Subadults | 2.289 | **0.022\*** | -0.051 | 0.959 |
|  | October-December 2022 | Adults | -0.178 | 0.858 | -0.406 | 0.684 |
|  |  | Subadults | 0.444 | 0.656 | -0.346 | 0.729 |
|  | April-June 2023 | Adults | 1.716 | 0.086 | -0.347 | 0.727 |
|  |  | Subadults | 2.250 | **0.024\*** | 0.198 | 0.842 |
|  |  |  |  |  |  |  |
| San Rafael | All together (2022-2023) | - | 0.889 | 0.373 | -1.122 | 0.261 |