**Table S3: Model selection outputs for a generalized additive mixed effects model for cownose rays (Rhinoptera spp.).** Transmitter ID was included in the top five models as a significant effect. The ideal model fit for the data is denoted by (\*); Akaike’s information criterion (AICc).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Model log (Gamma) | Intercept  | df | LogLik | AICc | ∆AICc | Weight |
| \*f(Transmitter ID) + s(Decimal Hour) + s (Moon Phase) | 0.045 | 5 | 4017.545 | -8025.067 | 0.000 | 0.99 |
| f(Transmitter ID) + f(Tide) + s(Decimal Hour) + s (Moon Phase) | 0.043 | 8 | 4013.005 | -8009.957 | 15.110 | 5.23 e-3 |
| f(Transmitter ID) + f(General Location) + s(Decimal Hour) + s (Moon Phase) | 0.038 | 6 | 4002.215 | -7992.399 | 32.668 | 8.05 e-7 |
| f(Transmitter ID) + f(General Location) + f(Tide) + s(Decimal Hour) + s (Moon Phase) | 0.036 | 9 | 3999.810 | -7981.553 | 43.514 | 3.56 e-9 |
| f(Transmitter ID) + s (Moon Phase) | 0.043 | 4 | 3992.315 | -7976.616 | 48.451 | 3.01 e-10 |