

Seasonal and life-stage variation in the reproductive ecology of a marine apex predator, the tiger shark *Galeocerdo cuvier*, at a protected female-dominated site

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Table S1. Sampling event, TL, plasma hormone concentration values of progesterone (P₄), testosterone (T) and estradiol (E₂) (in picograms per milliliter), reproductive stage, and method of reproductive stage determination for all individuals sampled in this study. Phase II individuals were used to build a multiple logistic regression with bidirectional selection (P=0.000003). Phase I reproductive statuses were then determined using this gravidity predicting model. Individuals with hormone concentrations lower than the sensitivity of the assay were assigned a minimum detectable value and denoted with *.

| Month-Year | TL | P ₄ (pg/mL) | T (pg/mL) | E ₂ (pg/mL) | Status | Method of Determination | Mating Scars | Sampling Phase |
|------------|-----|------------------------|-----------|------------------------|------------|-------------------------|--------------|----------------|
| Dec-11 | 280 | 15.63* | 62.94 | 20.97 | IMMATURE | < 300 cm TL | N/A | I |
| Dec-11 | 305 | 15.63* | 15.63* | 22.30 | GRAVID | Logit Model | N/A | I |
| Dec-11 | 305 | 15.63* | 43.03 | 20.91 | GRAVID | Logit Model | N/A | I |
| Dec-11 | 315 | 15.63* | 15.63* | 24.62 | GRAVID | Logit Model | N/A | I |
| Dec-11 | 321 | 15.63* | 46.07 | 27.44 | GRAVID | Logit Model | N/A | I |
| Dec-11 | 325 | 75.76 | 15.63* | 12.50* | GRAVID | Logit Model | N/A | I |
| Dec-11 | 332 | 15.63* | 40.13 | 17.53 | GRAVID | Logit Model | N/A | I |
| Dec-11 | 340 | 15.63* | 15.63* | 82.26 | GRAVID | Logit Model | N/A | I |
| Dec-11 | 346 | 15.63* | 45.72 | 23.37 | GRAVID | Logit Model | N/A | I |
| Dec-11 | 362 | 15.63* | 84.26 | 29.46 | GRAVID | Logit Model | N/A | I |
| Jul-12 | 153 | 15.63* | 200.19 | 12.50* | IMMATURE | < 300 cm TL | N/A | I |
| Jul-12 | 177 | 55.99 | 155.06 | 12.50* | IMMATURE | < 300 cm TL | N/A | I |
| Jul-12 | 232 | 15.63* | 79.84 | 12.50* | IMMATURE | < 300 cm TL | N/A | I |
| Jul-12 | 243 | 15.63* | 15.63* | 12.50* | IMMATURE | < 300 cm TL | N/A | I |
| Jul-12 | 248 | 33.87 | 119.36 | 12.50* | IMMATURE | < 300 cm TL | N/A | I |
| Jul-12 | 275 | 279.72 | 162.68 | 12.50* | IMMATURE | < 300 cm TL | N/A | I |
| Jul-12 | 296 | 93.02 | 195.54 | 154.20 | IMMATURE | < 300 cm TL | N/A | I |
| Jul-12 | 305 | 68.33 | 147.28 | 131.18 | NOT GRAVID | Logit Model | N/A | I |
| Oct-13 | 245 | 390.56 | 209.95 | 12.50* | IMMATURE | Ultrasonography | N | II |
| Oct-13 | 260 | 15.63* | 71.59 | 48.44 | GRAVID | Ultrasonography | N | II |
| Oct-13 | 273 | 15.63* | 66.66 | 12.50* | IMMATURE | Ultrasonography | N | II |
| Oct-13 | 292 | 15.63* | 123.66 | 55.57 | IMMATURE | Ultrasonography | N | II |
| Oct-13 | 305 | 41.97 | 193.62 | 176.16 | NOT GRAVID | Ultrasonography | N | II |
| Oct-13 | 307 | 15.63* | 73.61 | 101.56 | GRAVID | Ultrasonography | N | II |
| Oct-13 | 322 | 28.18 | 158.66 | 176.82 | NOT GRAVID | Ultrasonography | N | II |

| Month-Year | TL | P ₄ (pg/mL) | T (pg/mL) | E ₂ (pg/mL) | Status | Method of Determination | Mating Scars | Sampling Phase |
|------------|-----|------------------------|-----------|------------------------|------------|-------------------------|--------------|----------------|
| Oct-13 | 331 | 162.75 | 132.96 | 12.50* | GRAVID | Ultrasonography | N | II |
| Oct-13 | 344 | 52.07 | 148.60 | 12.50* | GRAVID | Ultrasonography | N | II |
| Oct-13 | 353 | 31.23 | 107.14 | 297.30 | NOT GRAVID | Ultrasonography | N | II |
| Oct-13 | 357 | 15.63* | 15.63* | 12.50* | GRAVID | Ultrasonography | N | II |
| Oct-13 | 357 | 37.10 | 116.96 | 79.31 | GRAVID | Ultrasonography | N | II |
| Oct-13 | 357 | 15.63* | 408.54 | 12.50* | GRAVID | Ultrasonography | Y | II |
| Oct-13 | 360 | 51.07 | 227.33 | 23.48 | GRAVID | Ultrasonography | N | II |
| Oct-13 | 368 | 15.63* | 247.33 | 12.50* | GRAVID | Ultrasonography | N | II |
| Oct-13 | 369 | 85.82 | 126.11 | 32.56 | GRAVID | Ultrasonography | N | II |
| Oct-13 | 373 | 15.63* | 143.48 | 12.50* | GRAVID | Ultrasonography | N | II |
| Oct-13 | 378 | 100.64 | 145.74 | 233.21 | NOT GRAVID | Ultrasonography | N | II |
| Oct-13 | 380 | 30.03 | 336.70 | 565.57 | NOT GRAVID | Ultrasonography | Y | II |
| May-14 | 213 | 15.63* | 15.63* | 80.84 | IMMATURE | < 300 cm TL | N | II |
| May-14 | 234 | 15.63* | 157.93 | 12.50* | IMMATURE | < 300 cm TL | N | II |
| May-14 | 242 | 15.63* | 58.48 | 12.50* | IMMATURE | < 300 cm TL | N | II |
| May-14 | 262 | 15.63* | 90.30 | 12.50* | IMMATURE | < 300 cm TL | N | II |
| May-14 | 264 | 15.63* | 81.59 | 12.50* | IMMATURE | < 300 cm TL | N | II |
| May-14 | 273 | 15.63* | 138.97 | 12.50* | IMMATURE | < 300 cm TL | N | II |
| May-14 | 300 | 15.63* | 111.51 | 12.50* | NOT GRAVID | Ultrasonography | N | II |
| May-14 | 301 | 15.63* | 61.62 | 99.45 | NOT GRAVID | Ultrasonography | N | II |
| May-14 | 324 | 15.63* | 138.64 | 110.98 | NOT GRAVID | Ultrasonography | N | II |
| May-14 | 349 | 291.66 | 430.42 | 12.50* | NOT GRAVID | Ultrasonography | N | II |
| May-14 | 352 | 15.63* | 115.45 | 12.50* | GRAVID | Ultrasonography | N | II |
| May-14 | 356 | 15.63* | 444.14 | 177.27 | NOT GRAVID | Ultrasonography | N | II |
| May-14 | 358 | 15.63* | 594.00 | 30.47 | NOT GRAVID | Ultrasonography | N | II |
| May-14 | 366 | 179.65 | 15.63* | 458.60 | NOT GRAVID | Ultrasonography | Y | II |
| May-14 | 383 | 40.24 | 700.97 | 71.98 | NOT GRAVID | Ultrasonography | N | II |
| Nov-14 | 236 | 15.63* | 15.63* | 12.50* | IMMATURE | < 300 cm TL | Y | II |
| Nov-14 | 283 | 58.73 | 128.11 | 12.50* | IMMATURE | < 300 cm TL | Y | II |
| Nov-14 | 336 | 15.63* | 63.28 | 12.50* | GRAVID | Ultrasonography | N | II |
| Nov-14 | 342 | 56.18 | 83.12 | 12.50* | NOT GRAVID | Ultrasonography | Y | II |
| Nov-14 | 355 | 41.64 | 155.61 | 344.21 | NOT GRAVID | Ultrasonography | Y | II |
| Nov-14 | 370 | 15.63* | 84.74 | 12.50* | GRAVID | Ultrasonography | N | II |
| Nov-14 | 356 | 357.82 | 141.82 | 254.62 | NOT GRAVID | Ultrasonography | N | II |