# Yellowfin tuna behavioural ecology and catchability in the South Atlantic: The right place at the right time (and depth)

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Supplementary Tables

Table S1.

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| --- | --- |
| **Month** | **LPUE (Mean)** |
| January | 0.21 |
| February | 0.22 |
| March | 0.21 |
| April | 0.22 |
| May | 0.19 |
| June | 0.16 |
| July | 0.14 |
| August | 0.13 |
| September | 0.16 |
| October | 0.11 |
| November | 0.16 |
| December | 0.18 |

Supplementary Figures



Figure S1. Comparison between the number of hourly fast starts identified for data recorded at 3 second vs 6 second (left), 3 second vs 9 second (middle) and 3 second vs 12 second.



Figure S2. Summary of depth and temperature experience for yellowfin tuna tagged within St Helena’s EEZ. Depth experience for all individuals is shown on the left. Water temperature is shown in the centre for tuna tagged with Lotek archival tags and satellite tags. Internal body cavity temperature is shown on the right for tuna tagged with archival tags.



Figure S3. Mean depth at night for yellowfin tuna in relation to lunar illumination. Significantly lower mean depth at night compared to other lunar illumination levels denoted with a \* (P<0.05).



Ascent

Descent

Figure S4. Pitch angle in relation to the depth of yellowfin tuna 1116009 for (A) the entire time at liberty and (B) during fast start events only.



Figure S6. Summary of yellowfin tuna LPUE (tonnes landed per vessel per day) for four commercial fishing vessels within St Helena’s inshore region.