Juvenile Anguillid Corrections

Lena

## All anguillids

|  | Morphometric Measurements | | | | |
| --- | --- | --- | --- | --- | --- |
| total\_number | total\_length\_cm | standard\_length\_cm | depth\_cm | weight\_g |
| Anguillidae | | | | | |
| Anguilla mossambica | 23.0 | 6.519048 | NaN | NaN | 5.250000 |
| Anguilla bengalensis | 51.0 | 5.551020 | NaN | NaN | 5.150000 |
| Anguilla marmorata | 2.0 | 5.000000 | NaN | NaN | 5.100000 |
| Gobiidae | | | | | |
| Glossogobius giuris | 946.9 | 14.549023 | 10.006391 | 5.347368 | 23.262911 |
| Stenogobius kenyae | 25.0 | 69.968000 | 57.040000 | 12.376000 | 17.320000 |
| Portunidae | | | | | |
| Scylla serrata | 41.0 | 10.500000 | 5.100000 | 9.000000 | 21.297297 |
| Penaeidae | | | | | |
| Penaeus indicus | 5.0 | NaN | NaN | NaN | 529.285714 |
| Ophichthidae | | | | | |
| Pisonodophis boro | 45.0 | 108.695455 | NaN | 8.716667 | 71.351111 |
| Sciaenidae | | | | | |
| Otolithes ruber | 14.0 | 20.215385 | 16.761538 | 7.950000 | 21.692308 |
| Mugilidae | | | | | |
| Planiliza alata | 24.0 | 4.263158 | 4.968421 | NaN | 2.666667 |
| Bagridae | | | | | |
| Bagrus docmak | 1.0 | 16.600000 | 13.000000 | NaN | 38.000000 |
| Cichlidae | | | | | |
| Oreochromis spirulus spirulus | 118.0 | 15.355556 | 12.486250 | 4.787500 | 26.644737 |
| Oreochromis mossambicus | 47.0 | 16.326471 | 11.791176 | 4.615152 | 15.882353 |
| Bagridae | | | | | |
| Bagrus docmak | 35.0 | 39.442857 | 32.405714 | 7.546875 | 78.371429 |
| Cyprinidae | | | | | |
| Barbus oxyrhynchus | 1.0 | 124.000000 | 97.000000 | 32.000000 | 19.000000 |

## Morphometrics

| **Characteristic** | **Anguilla bengalensis**, N = 50 | **Anguilla marmorata**, N = 4 | **Anguilla mossambica**, N = 22 | **p-value** |
| --- | --- | --- | --- | --- |
| total\_length | 54 ± 5 | 51 ± 4 | 63 ± 18 | 0.10 |
| df\_to\_af\_mm | 124 ± 43 | 112 ± 25 | 249 ± 282 | 0.015 |
| da\_mm | 107 ± 45 | 91 ± 24 | 215 ± 270 | 0.026 |
| dg\_cm | 17.9 ± 6.3 | 19.3 ± 1.5 | 19.7 ± 6.3 | 0.2 |
| lh\_mm | 63 ± 8 | 65 ± 6 | 82 ± 73 | 0.5 |
| lv\_mm | 60 ± 10 | 61 ± 5 | 80 ± 75 | 0.9 |
| rh\_mm | 60 ± 9 | 60 ± 5 | 80 ± 73 | 0.5 |
| rv\_mm | 60 ± 9 | 62 ± 10 | 82 ± 75 | 0.4 |

## Elvers Morhometrty

| **Characteristic** | **Anguilla bengalensis**, N = 2 | **Anguilla mossambica**, N = 8 | **p-value** |
| --- | --- | --- | --- |
| total\_length | 74 ± 1 | 78 ± 23 | >0.9 |
| df\_to\_af\_mm | 131 ± 101 | 294 ± 126 | 0.2 |
| da\_mm | 81 ± 58 | 238 ± 125 | 0.089 |
| dg\_cm | 22.0 ± 7.1 | 22.8 ± 8.7 | >0.9 |
| lh\_mm | 68 ± 12 | 70 ± 26 | 0.9 |
| lv\_mm | 67 ± 23 | 70 ± 30 | >0.9 |
| rh\_mm | 66 ± 18 | 70 ± 27 | >0.9 |
| rv\_mm | 65 ± 11 | 74 ± 26 | 0.9 |

## Glass Eels Morhometrty

| **Characteristic** | **Anguilla bengalensis**, N = 48 | **Anguilla marmorata**, N = 4 | **Anguilla mossambica**, N = 14 | **p-value** |
| --- | --- | --- | --- | --- |
| total\_length | 53.65 ± 3.43 | 50.75 ± 3.59 | 54.50 ± 6.19 | 0.4 |
| df\_to\_af\_mm | 124 ± 41 | 112 ± 25 | 223 ± 343 | 0.7 |
| da\_mm | 108 ± 44 | 91 ± 24 | 201 ± 330 | 0.5 |
| dg\_cm | 17.7 ± 6.3 | 19.3 ± 1.5 | 17.9 ± 3.8 | 0.3 |
| lh\_mm | 63 ± 8 | 65 ± 6 | 89 ± 89 | 0.3 |
| lv\_mm | 59 ± 9 | 61 ± 5 | 86 ± 92 | >0.9 |
| rh\_mm | 60 ± 9 | 60 ± 5 | 86 ± 90 | 0.4 |
| rv\_mm | 59 ± 9 | 62 ± 10 | 88 ± 94 | 0.4 |

## Anguillids across seasons

|  | Anguilla bengalensis | Anguilla marmorata | Anguilla mossambica | Total | p-value |
| --- | --- | --- | --- | --- | --- |
| season |  |  |  |  | 0.032 |
| Dry | 20 (87%) | 0 (0%) | 3 (13%) | 23 (100%) |  |
| Wet | 30 (57%) | 4 (7.5%) | 19 (36%) | 53 (100%) |  |
| Total | 50 (66%) | 4 (5.3%) | 22 (29%) | 76 (100%) |  |

## Elvers Across Seasons

|  | Anguilla bengalensis | Anguilla mossambica | Total |
| --- | --- | --- | --- |
| season |  |  |  |
| Wet | 2 (20%) | 8 (80%) | 10 (100%) |
| Total | 2 (20%) | 8 (80%) | 10 (100%) |

## Glass Eels Across Seasons

|  | Anguilla bengalensis | Anguilla marmorata | Anguilla mossambica | Total | p-value |
| --- | --- | --- | --- | --- | --- |
| season |  |  |  |  | 0.15 |
| Dry | 20 (87%) | 0 (0%) | 3 (13%) | 23 (100%) |  |
| Wet | 28 (65%) | 4 (9.3%) | 11 (26%) | 43 (100%) |  |
| Total | 48 (73%) | 4 (6.1%) | 14 (21%) | 66 (100%) |  |

# Phases of the moon

## Anguillids across moon phase

|  | Anguilla bengalensis | Anguilla marmorata | Anguilla mossambica | Total | p-value |
| --- | --- | --- | --- | --- | --- |
| moon\_phase |  |  |  |  | 0.2 |
| First Quarter | 8 (57%) | 2 (14%) | 4 (29%) | 14 (100%) |  |
| Full moon | 10 (100%) | 0 (0%) | 0 (0%) | 10 (100%) |  |
| Last Quarter | 8 (67%) | 0 (0%) | 4 (33%) | 12 (100%) |  |
| Wanning Gibbous | 18 (64%) | 1 (3.6%) | 9 (32%) | 28 (100%) |  |
| Waxing Creascent | 6 (50%) | 1 (8.3%) | 5 (42%) | 12 (100%) |  |
| Total | 50 (66%) | 4 (5.3%) | 22 (29%) | 76 (100%) |  |

## Elvers Across moon phase

|  | Anguilla bengalensis | Anguilla mossambica | Total |
| --- | --- | --- | --- |
| moon\_phase |  |  |  |
| Last Quarter | 0 (0%) | 3 (100%) | 3 (100%) |
| Wanning Gibbous | 2 (33%) | 4 (67%) | 6 (100%) |
| Waxing Creascent | 0 (0%) | 1 (100%) | 1 (100%) |
| Total | 2 (20%) | 8 (80%) | 10 (100%) |

## Glass Eels Across moon phase

|  | Anguilla bengalensis | Anguilla marmorata | Anguilla mossambica | Total | p-value |
| --- | --- | --- | --- | --- | --- |
| moon\_phase |  |  |  |  | 0.3 |
| First Quarter | 8 (57%) | 2 (14%) | 4 (29%) | 14 (100%) |  |
| Full moon | 10 (100%) | 0 (0%) | 0 (0%) | 10 (100%) |  |
| Last Quarter | 8 (89%) | 0 (0%) | 1 (11%) | 9 (100%) |  |
| Wanning Gibbous | 16 (73%) | 1 (4.5%) | 5 (23%) | 22 (100%) |  |
| Waxing Creascent | 6 (55%) | 1 (9.1%) | 4 (36%) | 11 (100%) |  |
| Total | 48 (73%) | 4 (6.1%) | 14 (21%) | 66 (100%) |  |

# Temporal Distribution

|  | Anguilla bengalensis | Anguilla marmorata | Anguilla mossambica | Total | p-value |
| --- | --- | --- | --- | --- | --- |
| month |  |  |  |  | 0.2 |
| July | 1 (50%) | 0 (0%) | 1 (50%) | 2 (100%) |  |
| August | 29 (57%) | 4 (7.8%) | 18 (35%) | 51 (100%) |  |
| September | 1 (50%) | 0 (0%) | 1 (50%) | 2 (100%) |  |
| October | 10 (100%) | 0 (0%) | 0 (0%) | 10 (100%) |  |
| November | 9 (82%) | 0 (0%) | 2 (18%) | 11 (100%) |  |
| Total | 50 (66%) | 4 (5.3%) | 22 (29%) | 76 (100%) |  |

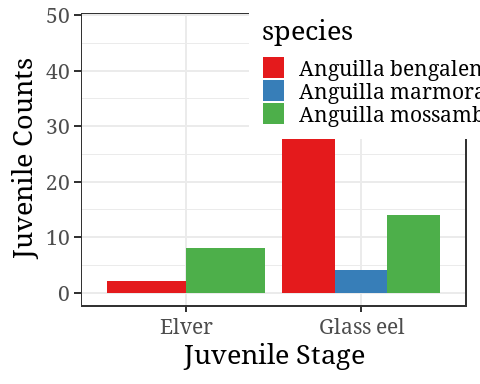
## Tempral Distribution of elvers

|  | Anguilla bengalensis | Anguilla mossambica | Total |
| --- | --- | --- | --- |
| month |  |  |  |
| August | 2 (20%) | 8 (80%) | 10 (100%) |
| Total | 2 (20%) | 8 (80%) | 10 (100%) |

## Tempral Distribution of glass eels

|  | Anguilla bengalensis | Anguilla marmorata | Anguilla mossambica | Total | p-value |
| --- | --- | --- | --- | --- | --- |
| month |  |  |  |  | 0.3 |
| July | 1 (50%) | 0 (0%) | 1 (50%) | 2 (100%) |  |
| August | 27 (66%) | 4 (9.8%) | 10 (24%) | 41 (100%) |  |
| September | 1 (50%) | 0 (0%) | 1 (50%) | 2 (100%) |  |
| October | 10 (100%) | 0 (0%) | 0 (0%) | 10 (100%) |  |
| November | 9 (82%) | 0 (0%) | 2 (18%) | 11 (100%) |  |
| Total | 48 (73%) | 4 (6.1%) | 14 (21%) | 66 (100%) |  |

## Juveniles Plot



## Biotopes

|  | Anguilla bengalensis | Anguilla marmorata | Anguilla mossambica | Total | p-value |
| --- | --- | --- | --- | --- | --- |
| biotope |  |  |  |  | 0.3 |
| Rocky/Muddy | 5 (50%) | 0 (0%) | 5 (50%) | 10 (100%) |  |
| Vegetation edges | 45 (68%) | 4 (6.1%) | 17 (26%) | 66 (100%) |  |
| Total | 50 (66%) | 4 (5.3%) | 22 (29%) | 76 (100%) |  |

## EELS BIOTOPES

|  | Anguilla bengalensis | Anguilla marmorata | Anguilla mossambica | Total | p-value |
| --- | --- | --- | --- | --- | --- |
| biotope |  |  |  |  | 0.4 |
| Rocky/Muddy | 4 (57%) | 0 (0%) | 3 (43%) | 7 (100%) |  |
| Vegetation edges | 44 (75%) | 4 (6.8%) | 11 (19%) | 59 (100%) |  |
| Total | 48 (73%) | 4 (6.1%) | 14 (21%) | 66 (100%) |  |

## elvers BIOTOPES

|  | Anguilla bengalensis | Anguilla mossambica | Total | p-value |
| --- | --- | --- | --- | --- |
| biotope |  |  |  | >0.9 |
| Rocky/Muddy | 1 (33%) | 2 (67%) | 3 (100%) |  |
| Vegetation edges | 1 (14%) | 6 (86%) | 7 (100%) |  |
| Total | 2 (20%) | 8 (80%) | 10 (100%) |  |

## Catch Per Unit Effort

| species | Elver | Glass eel | Total |
| --- | --- | --- | --- |
| Anguilla bengalensis | 2 | 48 | 50 |
| Anguilla mossambica | 8 | 14 | 22 |
| Anguilla marmorata | NA | 4 | NA |