

| SENIGALLIA (S) | Temperature | Salinity | Chlorophyll |
|-----------------------|--------------------|-----------------|--------------------|
| Sep | 25.04 (1.62) | 37.12 (0.07) | 0.33 (0.16) |
| Oct | 20.54 (0.87) | 37.41 (0.16) | 0.43 (0.15) |
| Nov | 16.90 (1.43) | 37.43 (0.18) | 0.61 (0.35) |
| Dec | 0.33 (0.16) | 36.39 (0.45) | 1.21 (0.46) |
| Jan | 10.64 (0.25) | 36.25 (0.17) | 1.47 (0.69) |
| Feb | 11.04 (0.54) | 35.86 (0.33) | 0.73 (0.25) |
| Mar | 11.90 (0.42) | 36.82 (0.16) | 0.69 (0.31) |
| Apr | 13.61 (1.28) | 36.47 (0.27) | 0.62 (0.22) |
| May | 17.93 (1.55) | 37.15 (0.47) | 0.36 (0.13) |
| Jun | 21.49 (1.14) | 37.14 (0.14) | 0.32 (0.14) |
| Jul | 25.86 (0.61) | 36.58 (0.16) | 0.29 (0.14) |
| Aug | 27.48 (0.41) | 36.88 (0.23) | 0.23 (0.13) |
| Sep | 25.00 (0.98) | 37.32 (0.04) | 0.34 (0.21) |
| Autumn | 17.78 (3.48) | 37.20 (0.44) | 0.64 (0.41) |
| Winter | 11.24 (0.72) | 36.21 (0.40) | 1.05 (0.60) |
| Spring | 16.47 (3.45) | 36.92 (0.45) | 0.48 (0.24) |
| Summer | 26.03 (1.39) | 36.89 (0.32) | 0.27 (0.14) |

Supplementary Table S4. Monthly and seasonally based mean values (values in parentheses represent the standard deviation) of temperature [°C], salinity [PSU] and chlorophyll-a [mg/m³] at the S sampling site from September 2019 to September 2020.