**Table 1.** Summary of the environmental variables obtained from Copernicus Marine Environment Monitoring Service (CMEMS): Variable acronym and Name, Unit, Average value, Minimum value, Maximum value, and Spatial and Temporal resolution.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables acronym** | **Variable name** | **Units** | **Average** | **Min** | **Max** | **Spatial resolution** | **Temporal resolution** |
| **Depth** | Depth | m | 3732.41 | 6476.67 | 45.357 | 30 arc-seconds | **-** |
| **Distance to the coast** | Distance | Km\*1000 (Euclidean distance) | 8.907 | 0.059 | 23.026 | 5 arcmin | **-** |
| **SST** | Sea Surface Temperature | ºC | 25.276 | 16.69 | 29.636 | 0.25º | Daily |
| **Sal** | Salinity | psu | 34.371 | 26.943 | 36.453 | 0.25º | Monthly |
| **SSH** | Sea Surface Height | m | 0.246 | -0.001 | 0.627 | 0.25º | Daily |
| **Chl** | Chlorophyll concentration | mg.m-3 | 0.217 | 0.024 | 1.83 | 0.25º | Monthly |
| **Phy** | Phytoplankton | mg.m-3 | 1.611 | 0.427 | 15.369 | 0.25º | Monthly |
| **O2** | Oxygen Concentration | mg/l | 209.613 | 193.605 | 252.1 | 0.25º | Monthly |
| **Ni** | Nitrate | mg/l | 4.785 | 0 | 20.173 | 0.25º | Monthly |
| **Vel** | Velocity | m/s | 0.247 | 0.001 | 1.161 | 0.25º | Monthly |
| **Ke** | Kinetic energy | m/s | 0.046 | 0 | 0.674 | 0.25º | Monthly |
| **Heading** | Direction of the current | degrees | 213.341 | 0 | 359.85 | 0.25º | Monthly |
| **Type** | Type of set (Dolphin vs. Floating object vs. School) | Considered as a factor in the estimation and as a dummy variable (0,1) in the prediction |  |  |  |  |  |