**Table S1.** **Environmental Covariates.**

Description of environmental covariates included in the habitat models and transformations applied to normalize variables.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Abbreviation** | **Resolution** | **Description** | **Source** | **Transformation\*** |
| DEPTH | 3 arcsec | Bathymetry (m) | ETOPO1 (Amante and Eakins, 2009) | Log(-X) |
| D2S | 0.04º | Distance to coastline (m) | Ocean Color Web | X^0.34 |
| SLOPE | 3 arcsec | Seafloor slope (º) | ETOPO1 (Amante and Eakins, 2009) | X^-0.178 |
| D200 | 1’ | Distance to 200 m isobath | ETOPO1 (Amante and Eakins, 2009) | X^0.34 |
| D125 | 1’ | Distance to 125 m isobath | ETOPO1 (Amante and Eakins, 2009) | X^0.34 |
| D1000 | 1’ | Distance to 1000 m isobath | ETOPO1 (Amante and Eakins, 2009) | X^0.34 |
| SST | 0.05º | Sea surface temperature (°C) | SST, GOES Imager, Day and Night, Western Hemisphere (8 Day Composite) NOAA NMFS SWFSC ERD | 11605/(X+273.15) |
| LAT |  | Latitude (º) |  | None |
| CHL | 0.0125º /0.04166º | Chlorophyll a  (mg m-3) | ERDDAP | 1/(X+1) |
| PP | 0.1º | Primary productivity (mgC m−2 yr−1) | ERDDAP | X^0.099 |
| PIC | 4 km | Particulate inorganic carbon (mol m-3) | ERDDAP | X^-0.31 |
| POC | 4 km | Particulate organic carbon (mg m-3) | ERDDAP | Log(X) |
| BTEMP | 1/12º | Bottom temperature (°C) | HYCOM (Chassignet, *et al.,* 2007) | 11605/(X+273.15) |
| SAL | 1/12º | Salinity (psu) | HYCOM (Chassignet, *et al.,* 2007) | None |
| SLA | 1/4º | Sea level anomaly | AVISO+ | None |
| MLD | 1/12º | Mix layer depth, depth at which the density changes from the surface by 0.03 kg/m3 (m) | HYCOM (Chassignet, *et al.,* 2007) | Log(X) |

\*Transformations were only applied to covariates when using the BHSDM method