*Supplementary information for*

**The role of the climate, oceanography and prey in driving decadal spatio-temporal patterns of a highly mobile top predator**

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**Supplementary Table 1.** List of data providers

|  |  |  |
| --- | --- | --- |
| **Survey/Dataset** | **Institution** | **Responsible** |
| ATLANCET | La Rochelle Université | Vincent.Ridoux  Ghislain Dorémus |
| BIOMAN | AZTI | Maite Louzao |
| CEMMA | Coordinadora Para O Estudo Dos Mamíferos Mariños | Jose Martinez Cedeira |
| CODA | University of St Andrews | Philip Hammond |
| ESAS | European Seabirds-At-Sea | Mark.Lewis |
| EVHOE | IFREMER | Vincent Ridoux  Ghislain Dorémus |
| IBTS | IFREMER | Vincent Ridoux  Ghislain Dorémus |
| IFAW | Marine Conservation Research | Oliver Boisseau |
| IWDG | Irish Whale and Dolphin Group | Dave Wall  Simon Berrow |
| JUVENA | AZTI | Maite Louzao |
| KOSMOS | University College Cork | Mark Jessopp |
| MARINELIFE | MARINElife | Tom Brereton |
| ORCA | Organisation Cetacea | Lucy Babey |
| PELACUS | Instituto Español de Oceanografía | Camilo Saavedra  M. Begoña Santos |
| PELGAS | IFREMER | Vincent Ridoux  Ghislain Dorémus |
| SAMM | La Rochelle Université | Vincent Ridoux  Ghislain Dorémus |
| SCANS1 | University of St Andrews | Philip Hammond |
| SCANS2 | University of St Andrews | Philip Hammond |
| SPEA | Sociedade Portuguesa Para o Estudo das Aves | Joana Andrade |
| SWF | Sea Watch Foundation | Peter Evans |
| WDC | Whale and Dolphin Conservation | Nicola Hodgins |

**Supplementary Table 2.** Model terms obtained from spatio-temporal models when increasing the mesh resolution to 500 knots (maximum number that is feasible on our machine).

Second column refers to the AIC score of each model, while the third column refers to the difference in the AIC (ΔAIC) resulting from the comparison of each univariate model with the spatio-temporal model (reference model). Positive values mean that higher AIC were obtained relative to the baseline spatio-temporal model while negative values mean that lower AIC scores were achieved. Numbers in bold mean improvement in model fitting (ΔAIC < -2) and hence, substantial contribution of the given variable.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Model** | **AIC** | **ΔAIC** |
| **Baseline spatio-temporal** | No covariates | 27734.97 | 0 |
| **Local oceanographic conditions** | Temperature | 27738.78 | 3.81 |
| Chlorophyll | 27731.53 | **-3.44** |
| **Regional**  **climate**  **indices** | NAO | 27723.5 | **-11.47** |
| EA | 27734.99 | 0.02 |
| AMO | 27735.99 | 1.02 |
| **Regional**  **prey**  **biomasses** | Anchovy | 27724.64 | **-10.33** |
| Sardine | 27730.51 | **-4.46** |
| Mackerel | 27732.01 | **-2.96** |
| Horse mackerel | 27731.86 | **-3.11** |
| Blue whiting | 27734.52 | 0.45 |
| Biomass index | 27733.43 | -1.54 |

**Supplementary Table 3.** The abundance estimates and the standard deviation predicted by the baseline spatiotemporal model per year.

|  |  |  |
| --- | --- | --- |
| Year | Estimated abundance | Standard Deviation |
| 1994 | 172755.62 | 75844.48 |
| 1995 | 223363.79 | 87180.60 |
| 1996 | 150105.29 | 68812.01 |
| 1997 | 151698.09 | 66265.23 |
| 1998 | 159883.71 | 64753.85 |
| 1999 | 180734.38 | 84614.94 |
| 2000 | 152133.14 | 81421.06 |
| 2001 | 275935.23 | 117673.73 |
| 2002 | 115852.53 | 45894.76 |
| 2003 | 158658.07 | 76654.18 |
| 2004 | 97052.66 | 51242.56 |
| 2005 | 248868.61 | 82532.25 |
| 2006 | 142497.01 | 61494.84 |
| 2007 | 400861.26 | 104699.49 |
| 2008 | 157808.90 | 30695.04 |
| 2009 | 204242.70 | 41002.09 |
| 2010 | 198570.51 | 41354.94 |
| 2011 | 354275.87 | 125450.35 |
| 2012 | 358549.12 | 49168.55 |
| 2013 | 300618.93 | 87666.17 |
| 2014 | 329400.27 | 120721.54 |
| 2015 | 305980.52 | 79601.28 |
| 2016 | 376150.76 | 71517.74 |
| 2017 | 299771.62 | 55071.32 |
| 2018 | 330139.20 | 132598.42 |

**Supplementary Figure 1.** Distribution of the knots (locations) used to estimate common dolphin density.

![Gráfico, Gráfico de dispersión

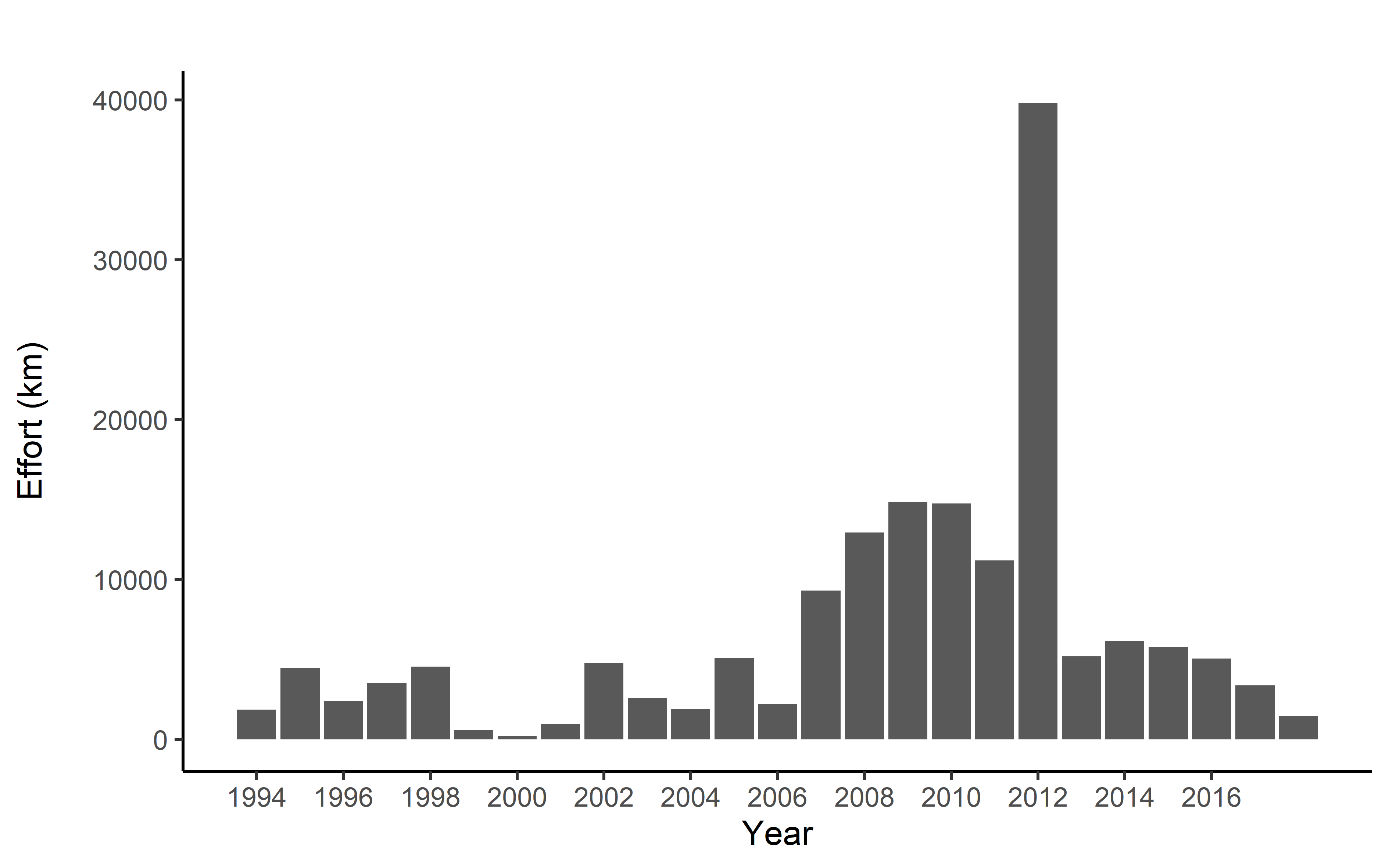
Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAyADIAAD/4VKORXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA2OjE3IDA5OjQ2OjA0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Supplementary Figure 2.** Pearson correlation between the biomass estimates of the sardine inhabiting the Bay of Biscay (only available since 2000) and the biomasses of sardine from Cantabrian and Iberian waters (available since 1978) for the 2000-2017 period.

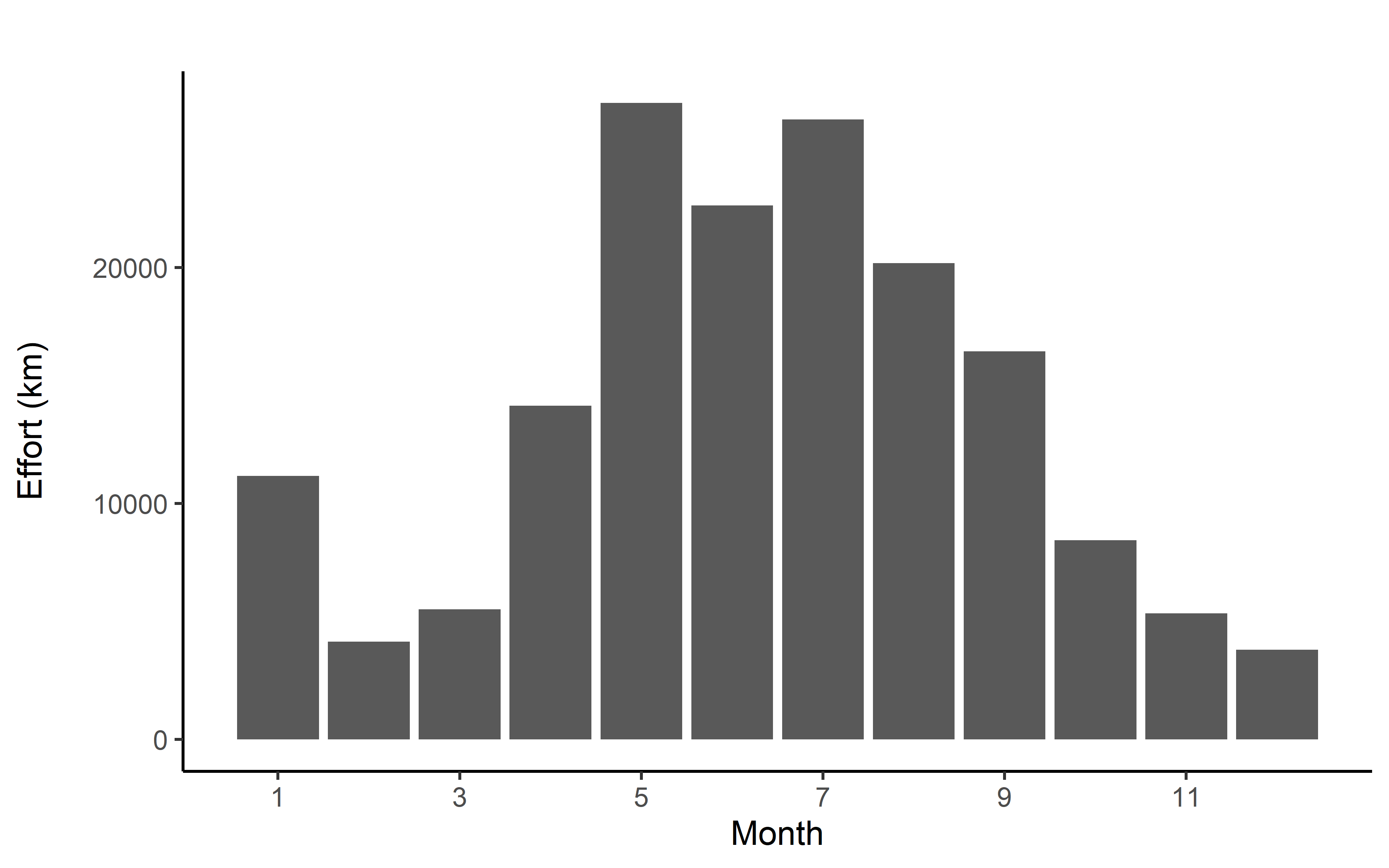
**Diagrama

Descripción generada automáticamente**

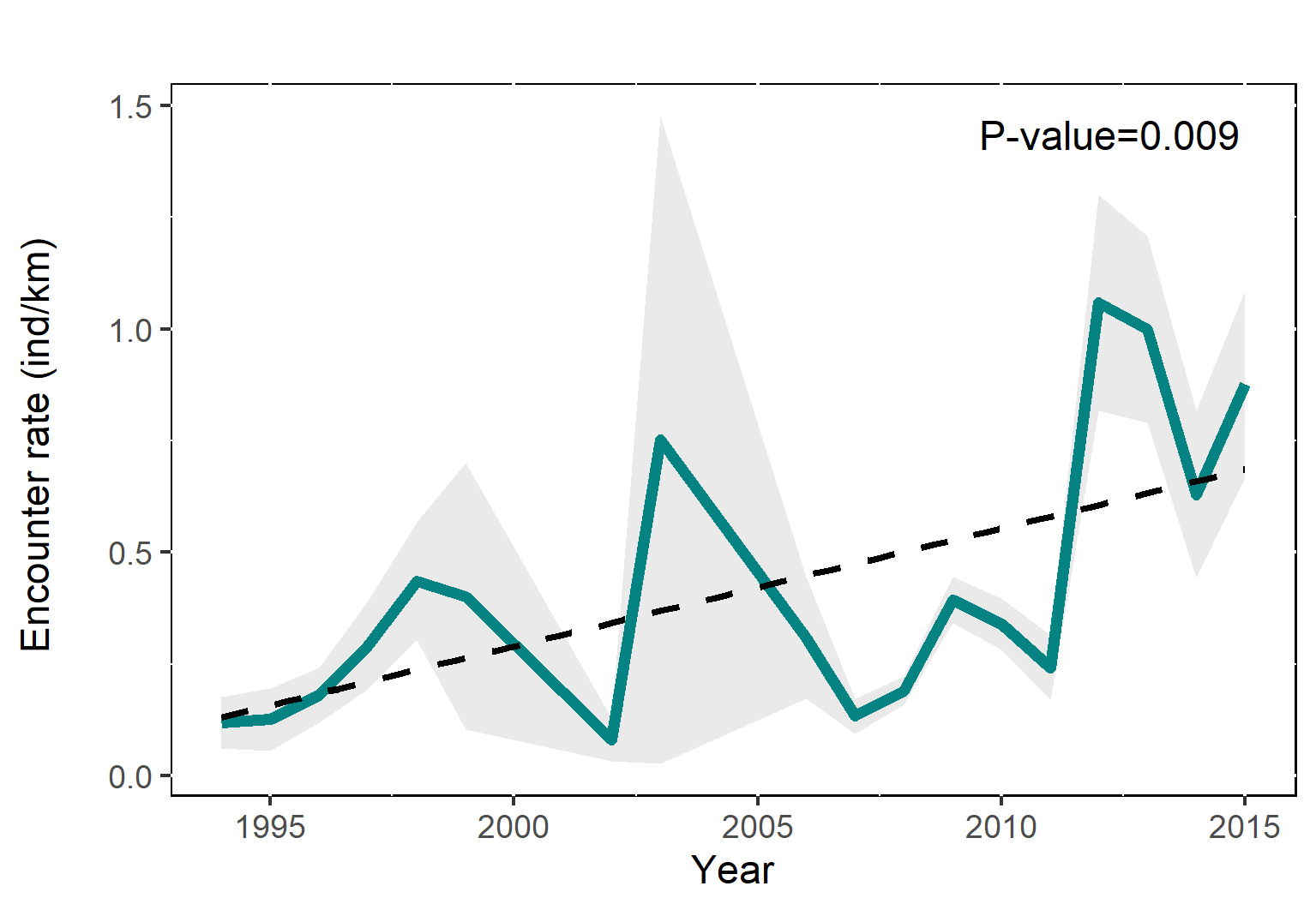
**Supplementary Figure 3.** Overall survey effort per year (a) and per month (b) in the Bay of Biscay for the study period.



a)



b)

**Supplementary Figure 4.** Common dolphin’s observed abundance index (encounter rate) estimated from ferry data. Green line indicates the annual mean, while the grey bar shows the standard error.

**Gráfico, Diagrama

Descripción generada automáticamenteSupplementary Figure 5.** Pearson correlation between observed abundance index (above) and predicted abundance index from the baseline spatiotemporal model.

**Gráfico

Descripción generada automáticamenteSupplementary Figure 6.** The annual mean of temperature and chorophyll *a* integrated at 100m along the study period, accompanied by the standard error, the linear trend and its significance.

**Gráfico

Descripción generada automáticamente**

**Supplementary Figure 7.** The annual mean of NAO, AMO and EA climatic indeces over the study period. Red and blue colors indicate the positive and negative phases of the indices, respectively.

**Gráfico, Gráfico en cascada

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Descripción generada automáticamente**

**Gráfico

Descripción generada automáticamente**

**Supplementary Figure 8.** Spawning stock biomass ofanchovy, sardine, mackerel, horse mackerel and blue whiting (a-e), accompanied by the higher and lower boundaries (95% CI), the linear trend and its significance.Biomass index (f) represents the sum of all previous species.

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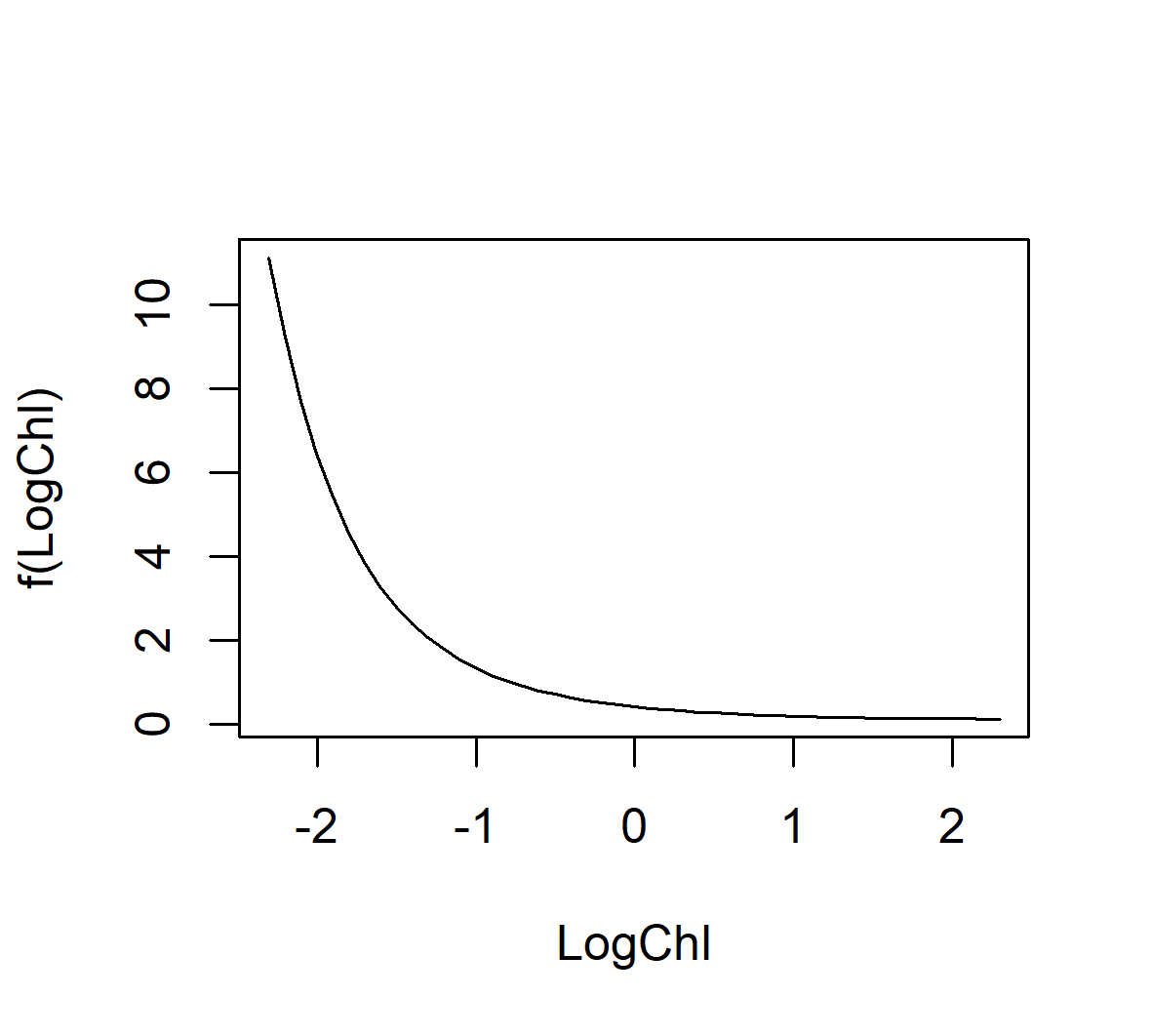
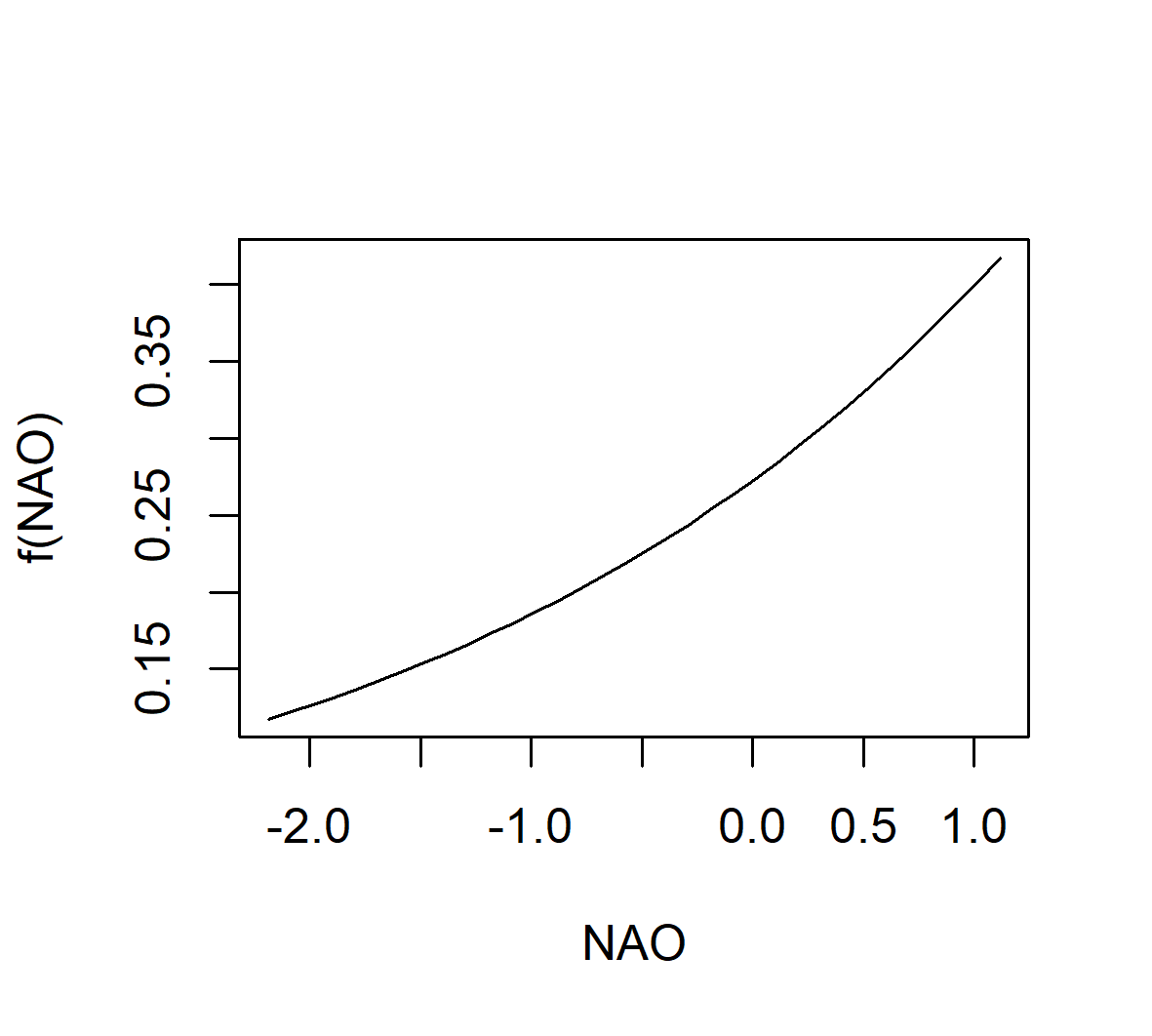
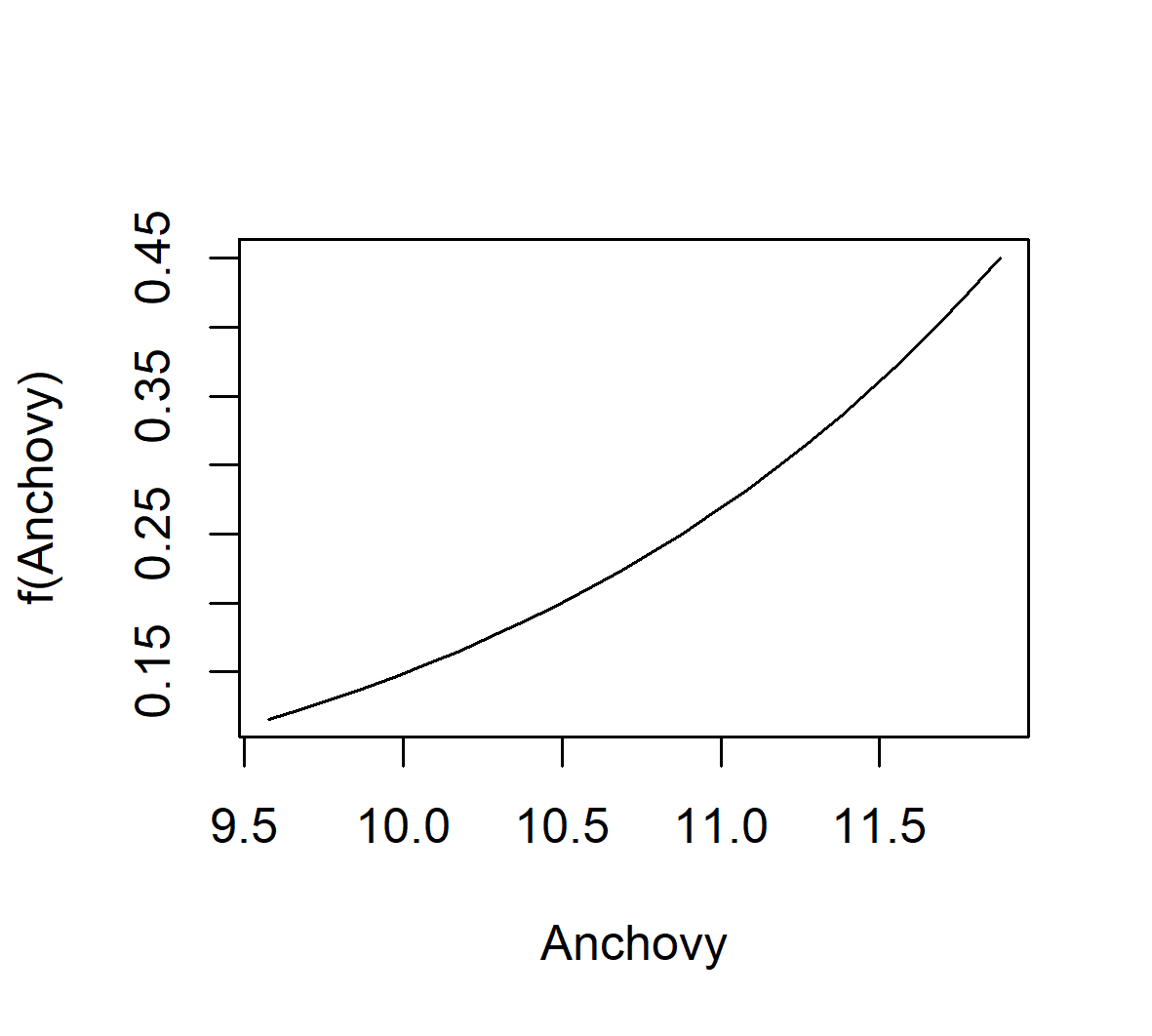
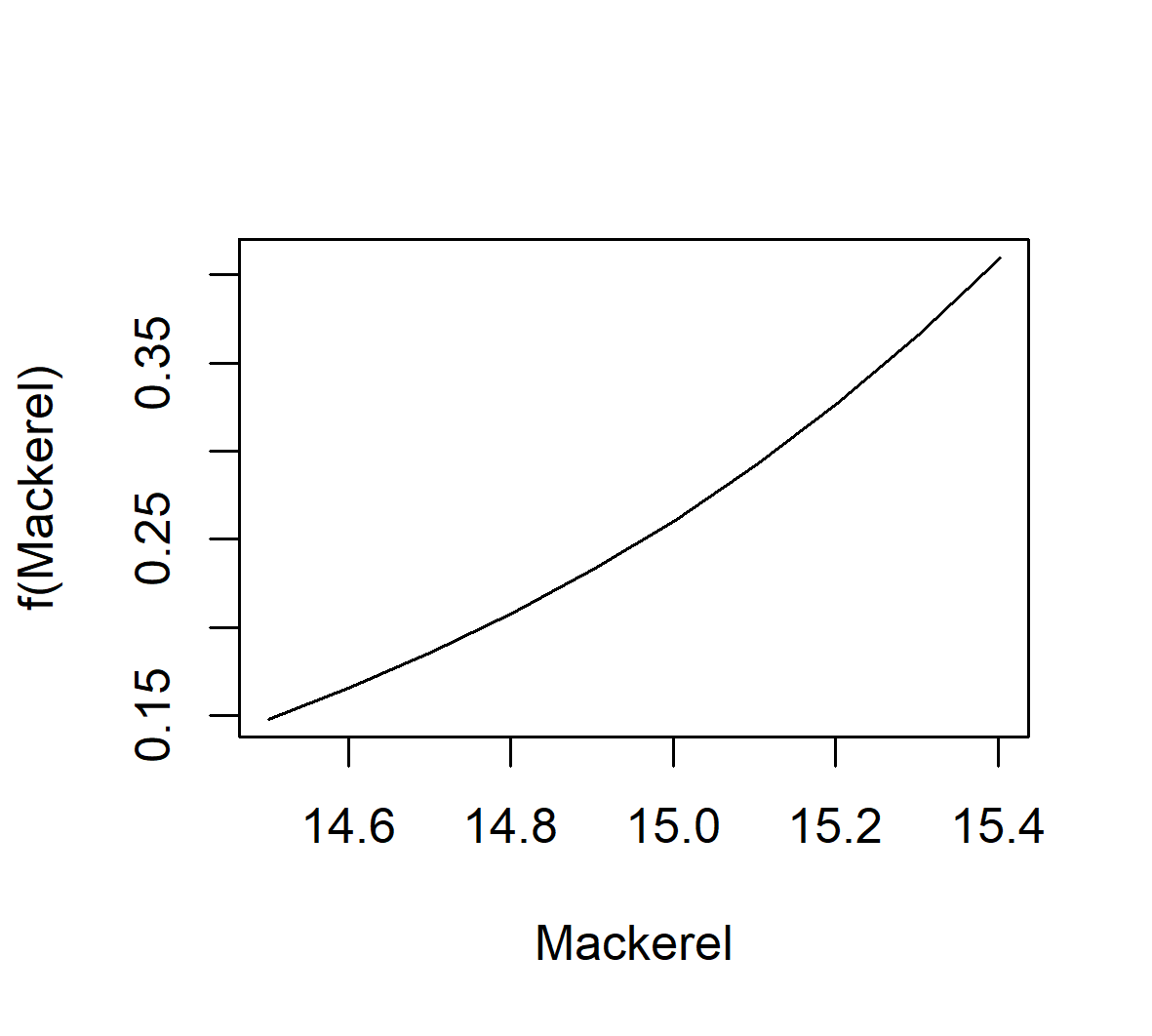
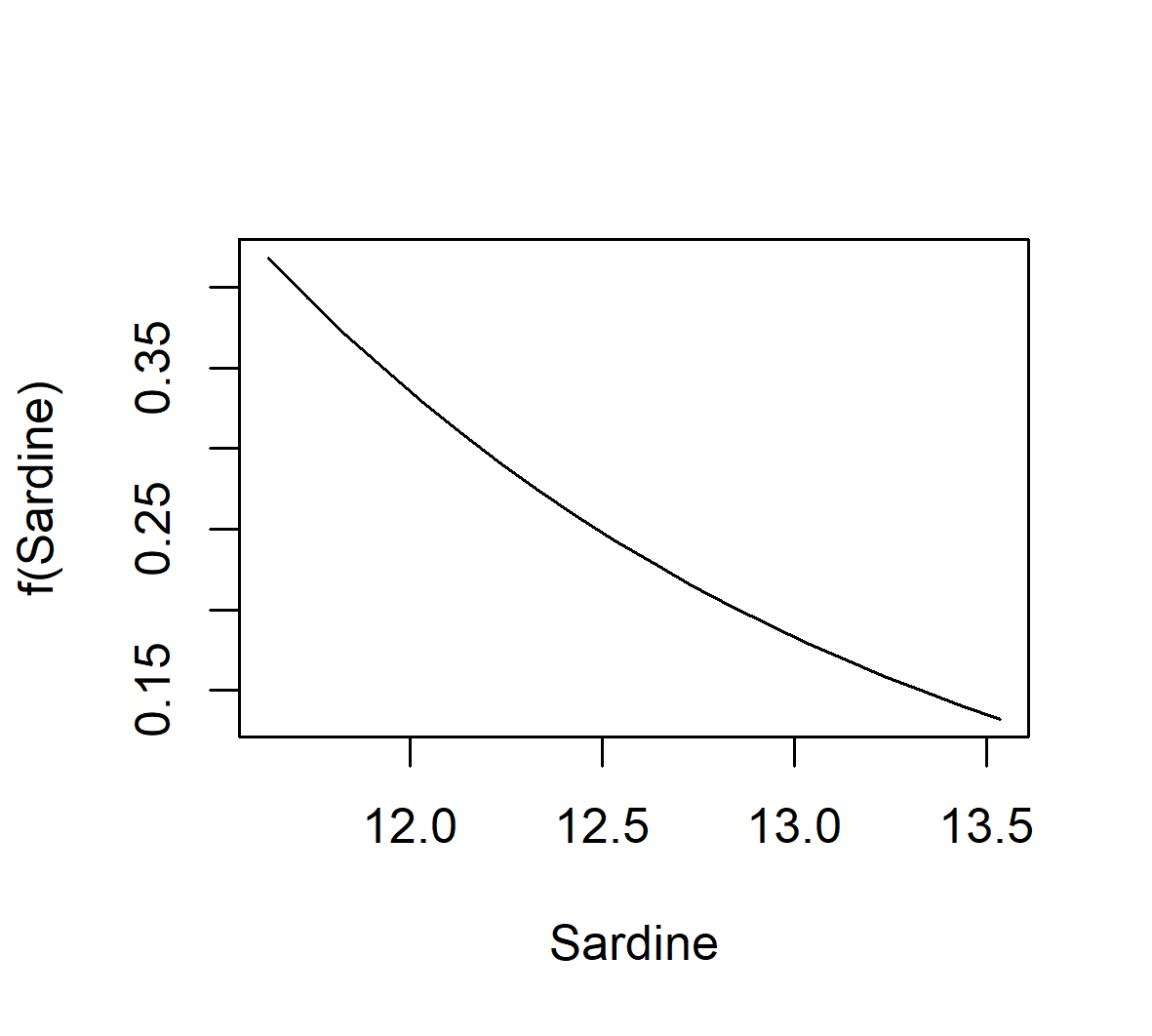
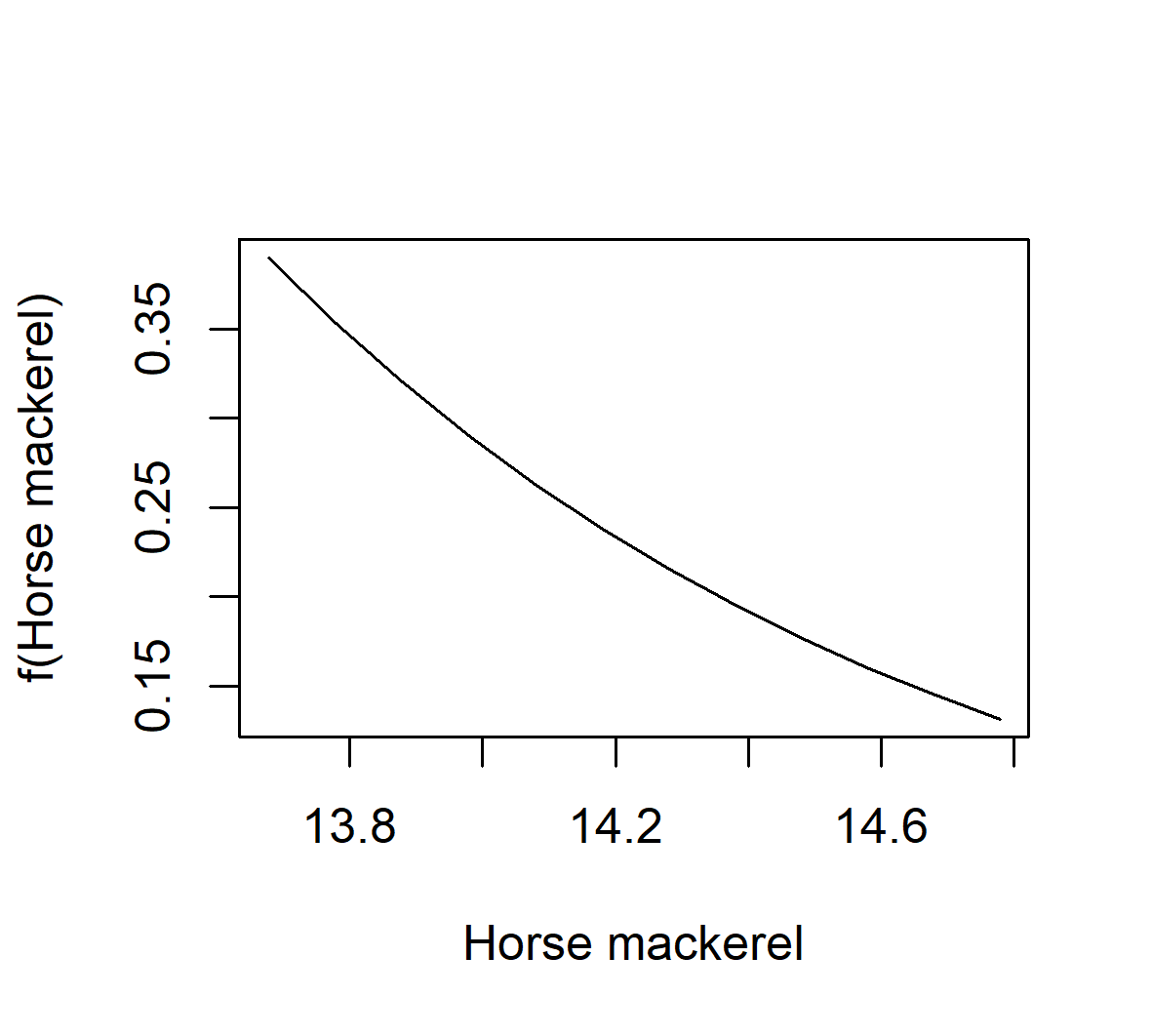
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**Supplementary Figure 9.** Functional relationships estimated from the parameters (intercepts and coefficients) given by the model only for those variables considered important in terms of AIC. Confidence interval could not be estimated with the parameters provided.



**Supplementary Figure 10.** Abundance estimates predicted by the spatio-temporal model and by the covariates-based model, in which the contribution made by AMO, temperature and blue whiting (those drivers not considered relevant by AIC score) can be visualized**.**

Gráfico, Gráfico de líneas

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