

Supplementary Information (SI) for

Forecasting size-at-maturity shifts under global warming: A case study on European hake, a widely distributed species

Reviews in Fish Biology and Fisheries

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This pdf file includes:

- **Online Resource 2** Table containing the temperature dataset methods, including thermal variables considered as potential predictors of L_{50} in the historical analysis. SST and SBT were extracted (spatial mean and standard deviation) on a monthly basis using shapefiles from fisheries management areas: Mediterranean GSAs (<https://www.fao.org/gfcm/data/maps/gsas/es/>) and Atlantic ICES areas (<https://gis.ices.dk/geonetwork/srv/api/records/c784a0a3-752f-4b50-b02f-f225f6c815eb>). Each data entry is linked to a reference number, with the full list of bibliographic references provided after the table

Online Resource 2 Temperature dataset methods: Thermal variables considered as potential predictors of L_{50} in the historical analysis. SST and SBT were extracted (spatial mean and standard deviation) with a monthly basis using the shapefiles from fisheries management areas (Mediterranean GSAs: <https://www.fao.org/gfcm/data/maps/gsas/es/>; Atlantic ICES areas: <https://gis.ices.dk/geonetwork/srv/api/records/c784a0a3-752f-4b50-b02f-f225f6c815eb>)

Variable	Period	Spatial resolution	Temporal resolution	Dataset type	References
SST (°C)	1870-2020	1x1°	Monthly	Reconstructed, corrected and interpolated fields	1
SBT (°C) (200-300 m)	1958-2020	0.25x0.25 (75 levels)	Monthly	Model (reanalysis)	2

References

1. Rayner, N. A., Parker, D. E., Horton, E. B., Folland, C. K., Alexander, L. V., Rowell, D. P., Kent, E. C., & Kaplan, A. (2003). Global analyses of sea surface temperature, sea ice, and night marine air temperature since the late nineteenth century. *Journal of Geophysical Research*, 108(D14), 4407. <https://doi.org/10.1029/2002JD002670>
2. Copernicus Climate Change Service. (2021). ORAS5 global ocean reanalysis monthly data from 1958 to present. *Copernicus Climate Change Service (C3S) Climate Data Store (CDS)*. <https://doi.org/10.24381/cds.67e8eeb7> (Accessed on 06-05-2024)