

Vertical distribution of mesopelagic fishes deepens during marine heatwave in the California Current

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Abstract

Marine heatwaves can impact the distribution and abundance of epipelagic organisms, but their effect on deep pelagic communities is unclear. Using fisheries acoustics data collected in the Central California current from 2013 to 2018, we found that during the warmest years of a large marine heatwave (2015–2016), the estimated center of mass depth of mesopelagic fishes deepened by up to 100 m compared to preheatwave conditions. Using a generalized additive model, we evaluated which biophysical factors may have driven these changes and found that light, dynamic height anomaly, and acoustic backscatter explained 81% of the variability in depth. We attribute the vertical shift by mesopelagic fishes into deeper waters to heatwave-driven compression of upwelling habitat that indirectly increased the amount of light reaching mesopelagic depths. Our results suggest that mesopelagic fishes are interconnected with, and thus sensitive to changes in near-surface oceanographic conditions, which could lead to cascading effects on vertical carbon export and the availability of mesopelagic fishes as prey for top predators under future climate conditions.

Keywords: acoustics; twilight zone; marine heatwave; mesopelagic fish; mesopelagic–epipelagic coupling

Introduction

Mesopelagic fishes represent the greatest biomass of vertebrates on Earth, with estimates exceeding that of all global annual commercial fish landings (Brigoien et al. 2014, FAO, 2022). Mesopelagic communities contribute to global carbon export and are important prey for economically valuable and protected species such as swordfish *Xiphus gladius*, albacore *Thunnus alalunga*, and marine mammals (Brodeur and Yamamura 2005, Iglesias et al. 2023). Although the mesopelagic zone is defined as the depths of 200–1000 m, many organisms inhabiting mesopelagic depths are connected to surface processes through vertical movements into surface waters to feed. This interconnection means mesopelagic organisms are affected by anthropogenic activities that impact epipelagic habitats, such as habitat alteration, climate change, and fisheries exploitation (Martin et al. 2020, Bisson et al. 2023). Despite increasing ocean surface temperatures (IPCC 2019) and expanding oxygen minimum zones (Breitburg et al. 2018), the long-term indirect effects of climate change on mesopelagic communities are poorly understood, but predicted to increase shoaling of the deep-scattering layer (DSL) by 2100 (Proud et al. 2017), expand mesopelagic habitat (Netburn and Koslow 2015), or shift mesopelagic fishes poleward (Liu et al. 2023). Our study is the first to document changes in the vertical distribution of the mesopelagic community in response to a large heatwave event and as such, advances the identification of important current and future environmental drivers shaping mesopelagic habitat.

The largest recorded marine heatwave event to date in the northeast Pacific began in the California Current Ecosystem (hereafter CCE) as a result of increased sea level pressure in the

North Pacific in 2013 (Bond et al. 2015) and eventually led to anomalous, surface intensified warm water along the US west coast, which persisted for several years (Di Lorenzo and Mantua 2016). Although the heatwave was observed in various locations and intensities between ~2014 and 2016 (Leising et al. 2015, McClatchie et al. 2016, Wells et al. 2017), increased temperatures in the central California Current region (where our study takes place), were not observed until late summer of 2014, and were most severe during 2015–2016 (Gentemann et al. 2017). During this time, increased sea surface temperatures led to extensive ecological change in the epipelagic community (Carole et al. 2016), but it is less clear how this heatwave event impacted the mesopelagic community.

In the southern CCE, the abundance of larval mesopelagic fishes with northern, cold-water affinities declined, while those with warm-water affinities increased (Nielsen et al. 2021, Thompson et al. 2022). However, the extent to which these responses reflect actual changes in abundance or distribution of the adult spawners, relative to changes in either spawning intensity or the advection patterns of larval mesopelagic fishes, is uncertain. Mid-water trawl data collected at night at 30 m headrope depth along the California Coast for adult Myctophids (family Myctophidae), a dominant family of mesopelagic fishes in the California Current (Davison et al. 2015b), suggest declines in 2013, though not below mean levels (Sakuma et al. 2016). In the northern California Current (Oregon and Washington), Brodeur et al. (2019) found that the response of myctophids to the heatwave was species specific, with both increases and decreases observed during this period. However, the surveys upon which these studies are based were not designed to specifically monitor mesopelagic

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