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Distribution of siphonophores in the Northwest Pacific Ocean and links to environmental conditions

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Despite their abundance in marine ecosystems, studies on siphonophores are limited. In this study, 26 species of siphonophores in the Northwest Pacific Ocean were identified during multiple cruises of the R/V ISABU from 2018–2020, and various factors that may affect the occurrence of siphonophores, including water temperature, salinity, zooplankton biomass, and trophic niche were investigated. Statistical analysis revealed that the distribution of siphonophores and their biomass could be divided into two water mass groups, affected by the Kuroshio and Oyashio Currents. The species with high contributions to distinguishing the water mass groups (including *Chelophyes contorta*, *Dimophyes arctica*, *Bassia bassensis*, and *Eudoxoides spiralis*—mainly belonging to the Diphyidae) showed species-specific correlations with water temperature and salinity. This suggests that diphyids can be used as indicator species for currents and hydrological factors that influence water mass. The biomass of siphonophores exhibited a trend opposite to that of non-gelatinous zooplankton and showed no association with other gelatinous zooplankton. These results can be interpreted from an ecological niche perspective. Through nitrogen and carbon stable isotope analyses, the dietary sources of siphonophores could potentially overlap with those of chaetognaths or non-gelatinous zooplankton. Because the trophic position of siphonophores (2.4–3.2) also falls in the range of those of chaetognaths (2.8–3.4) and non-gelatinous zooplankton including copepods, euphausiids, and amphipods (2.4–3.5), diet competition with carnivorous mesozooplankton could be predicted. Considering that the diversity and biomass of most siphonophores are strongly positively correlated with water temperature and salinity, expansion of the Kuroshio Current is expected to lead to an increase in siphonophores in the Northwest Pacific in the future. The findings of this study are anticipated to provide novel insights into climate change prediction and response and enhance our understanding of siphonophore communities.

KEYWORDS

biodiversity, gelatinous zooplankton, indicator species, Kuroshio Extension, siphonophore, stable isotope, trophic position

Siphonophores Of The Pacific With A Review Of The World Distribution

Emilie Sanchez



Siphonophores Of The Pacific With A Review Of The World Distribution:

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Siphonophores Of The Pacific With A Review Of The World Distribution**

In a world inundated with monitors and the cacophony of instantaneous conversation, the profound energy and mental resonance of verbal beauty usually diminish into obscurity, eclipsed by the regular assault of sound and distractions. Yet, set within the musical pages of **Siphonophores Of The Pacific With A Review Of The World Distribution**, a captivating work of fictional elegance that pulses with natural emotions, lies an unforgettable trip waiting to be embarked upon. Penned with a virtuoso wordsmith, that mesmerizing opus manuals visitors on a mental odyssey, softly exposing the latent potential and profound impact stuck within the elaborate internet of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is key subjects, dissect its charming writing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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Table of Contents Siphonophores Of The Pacific With A Review Of The World Distribution

1. Understanding the eBook Siphonophores Of The Pacific With A Review Of The World Distribution
 - The Rise of Digital Reading Siphonophores Of The Pacific With A Review Of The World Distribution
 - Advantages of eBooks Over Traditional Books
2. Identifying Siphonophores Of The Pacific With A Review Of The World Distribution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Siphonophores Of The Pacific With A Review Of The World Distribution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Siphonophores Of The Pacific With A Review Of The World Distribution

- Personalized Recommendations
 - Siphonophores Of The Pacific With A Review Of The World Distribution User Reviews and Ratings
 - Siphonophores Of The Pacific With A Review Of The World Distribution and Bestseller Lists
5. Accessing Siphonophores Of The Pacific With A Review Of The World Distribution Free and Paid eBooks
 - Siphonophores Of The Pacific With A Review Of The World Distribution Public Domain eBooks
 - Siphonophores Of The Pacific With A Review Of The World Distribution eBook Subscription Services
 - Siphonophores Of The Pacific With A Review Of The World Distribution Budget-Friendly Options
 6. Navigating Siphonophores Of The Pacific With A Review Of The World Distribution eBook Formats
 - ePub, PDF, MOBI, and More
 - Siphonophores Of The Pacific With A Review Of The World Distribution Compatibility with Devices
 - Siphonophores Of The Pacific With A Review Of The World Distribution Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Siphonophores Of The Pacific With A Review Of The World Distribution
 - Highlighting and Note-Taking Siphonophores Of The Pacific With A Review Of The World Distribution
 - Interactive Elements Siphonophores Of The Pacific With A Review Of The World Distribution
 8. Staying Engaged with Siphonophores Of The Pacific With A Review Of The World Distribution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Siphonophores Of The Pacific With A Review Of The World Distribution
 9. Balancing eBooks and Physical Books Siphonophores Of The Pacific With A Review Of The World Distribution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Siphonophores Of The Pacific With A Review Of The World Distribution
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Siphonophores Of The Pacific With A Review Of The World Distribution
 - Setting Reading Goals Siphonophores Of The Pacific With A Review Of The World Distribution
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Siphonophores Of The Pacific With A Review Of The World Distribution

- Fact-Checking eBook Content of Siphonophores Of The Pacific With A Review Of The World Distribution
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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