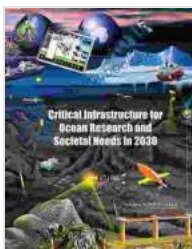


Critical Infrastructure for Ocean Research and Societal Needs in 2030

The ocean is a vast and complex system that covers over 70% of the Earth's surface. It is home to a wide variety of plant and animal life, and it provides essential services for humanity, such as food, transportation, and recreation. However, the ocean is also facing a number of challenges, including climate change, pollution, and overfishing.

In Free Download to meet these challenges and ensure the continued health of the ocean, it is critical to invest in infrastructure that will support ocean research and societal needs. This includes a range of facilities, such as research vessels, underwater observatories, and data centers.

In its report, Critical Infrastructure for Ocean Research and Societal Needs in 2030, the National Academies of Sciences, Engineering, and Medicine highlights the need for a sustained investment in ocean infrastructure. The report identifies several key areas where investment is needed, including:



Critical Infrastructure for Ocean Research and Societal Needs in 2030 by Susie Tate

★★★★☆ 4.5 out of 5

Language : English

File size : 1334 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting : Enabled

Word Wise : Enabled

Print length : 254 pages

Item Weight : 7.7 ounces

Dimensions : 5.51 x 0.47 x 8.07 inches



- **Research vessels:** Research vessels are essential for conducting oceanographic research. They provide a platform for scientists to collect data on the ocean's physical, chemical, and biological properties.
- **Underwater observatories:** Underwater observatories are long-term monitoring stations that collect data on the ocean's environment. They can be used to track changes in the ocean over time, and they can provide early warning of potential problems.
- **Data centers:** Data centers are used to store and process the vast amounts of data that are collected by oceanographic research. They are essential for making this data available to scientists and policymakers.

The report also calls for the development of a national ocean research infrastructure plan. This plan would provide a roadmap for the development and operation of ocean infrastructure over the next decade.

Investing in ocean infrastructure is essential for meeting the challenges facing the ocean and ensuring the continued health of this vital resource. The National Academies of Sciences, Engineering, and Medicine's report, *Critical Infrastructure for Ocean Research and Societal Needs in 2030*, provides a blueprint for how to make these investments.

There are many benefits to investing in ocean infrastructure. These benefits include:

- **Improved understanding of the ocean:** Ocean infrastructure will help scientists to better understand the ocean's physical, chemical, and biological properties. This knowledge is essential for predicting how the ocean will change in the future, and for developing policies to protect the ocean.
- **Early warning of potential problems:** Ocean infrastructure can provide early warning of potential problems, such as oil spills, harmful algal blooms, and coastal erosion. This information can help to prevent or mitigate these problems, and it can save lives.
- **Support for economic development:** Ocean infrastructure can support economic development in coastal communities. For example, research vessels can be used to support fishing and tourism, and underwater observatories can be used to monitor the health of marine ecosystems.
- **Enhanced national security:** Ocean infrastructure can enhance national security by providing information on the ocean's environment and activities. This information can be used to protect against threats, such as terrorism and piracy.

Investing in ocean infrastructure is essential for meeting the challenges facing the ocean and ensuring the continued health of this vital resource. The National Academies of Sciences, Engineering, and Medicine's report, *Critical Infrastructure for Ocean Research and Societal Needs in 2030*, provides a blueprint for how to make these investments.

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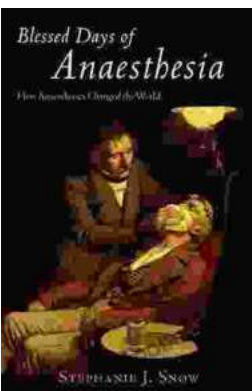


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