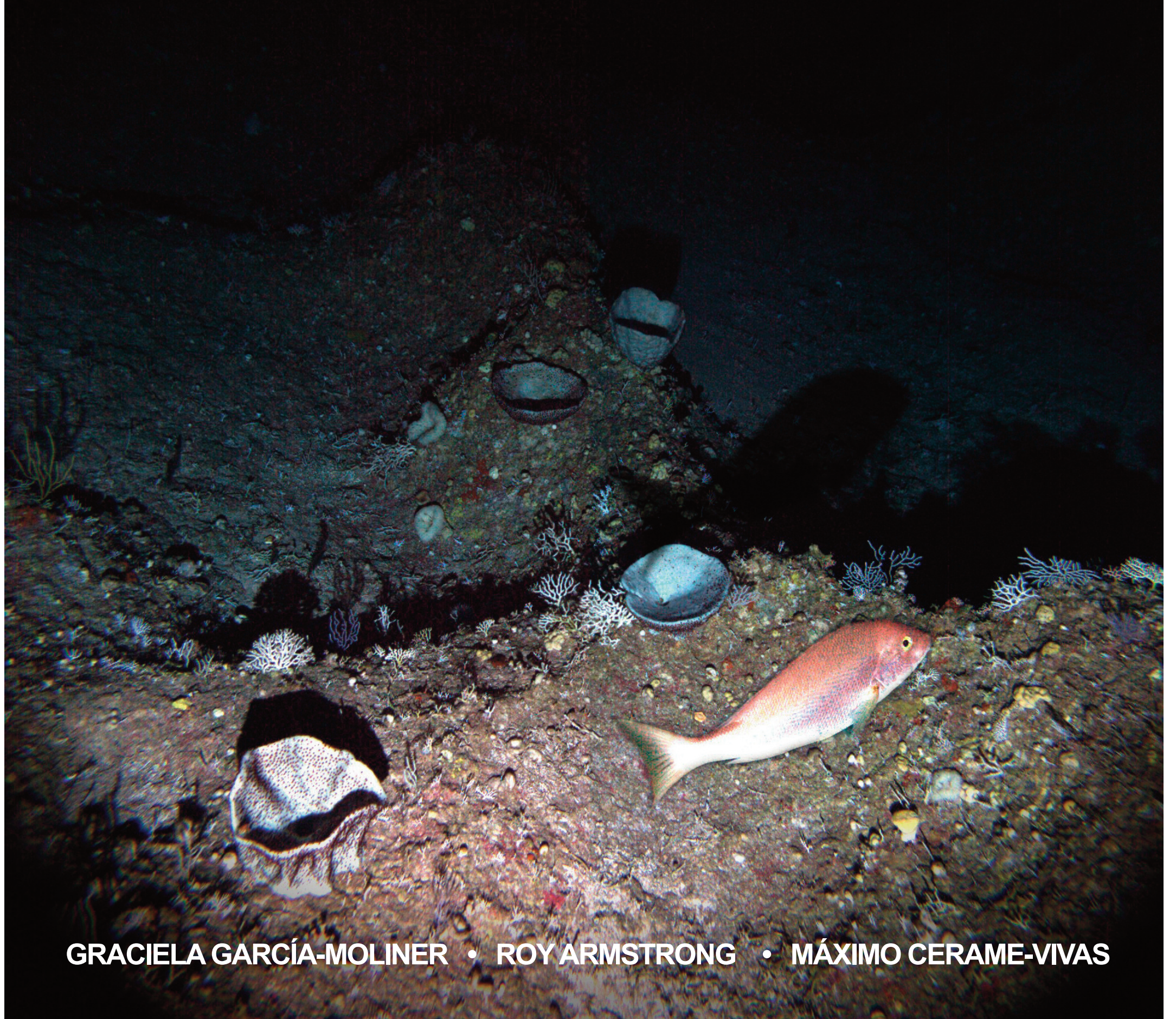


ESSENTIAL FISH HABITATS OF THE DEEP

PUERTO RICO AND THE U.S. VIRGIN ISLANDS



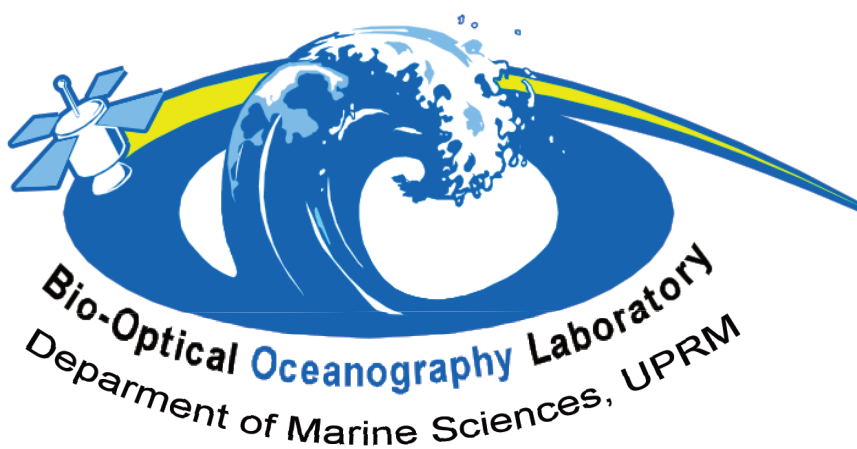
GRACIELA GARCÍA-MOLINER • ROY ARMSTRONG • MÁXIMO CERAME-VIVAS

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CARIBBEAN FISHERY MANAGEMENT COUNCIL
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Essential Fish Habitats of the Deep
Puerto Rico and the U.S. Virgin Islands

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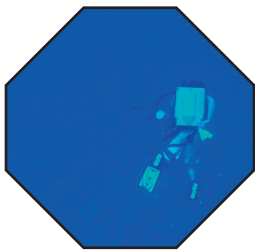
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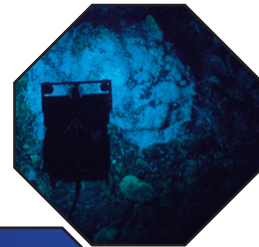
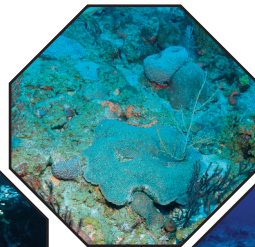
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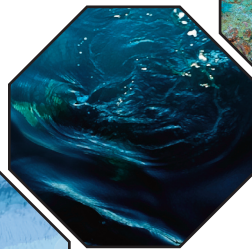


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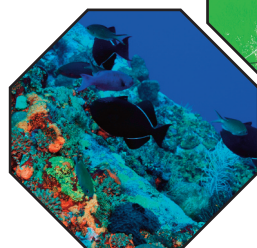
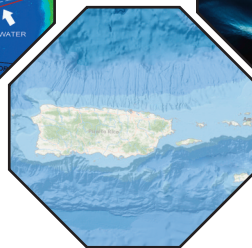
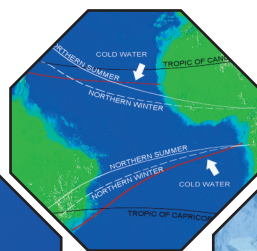
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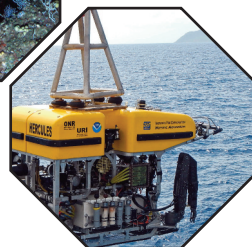
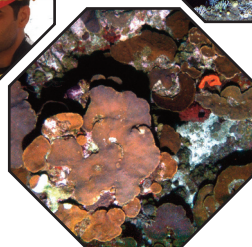
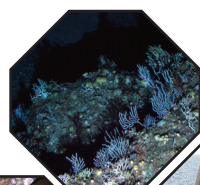
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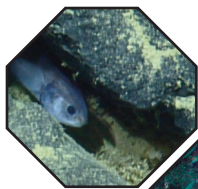
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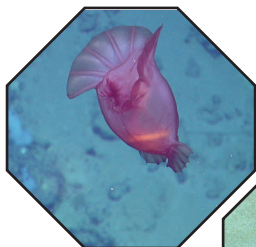
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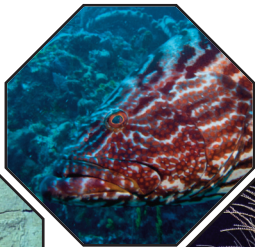
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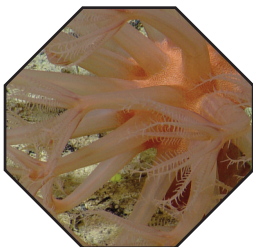
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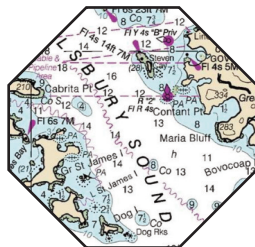
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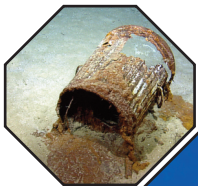
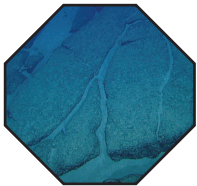
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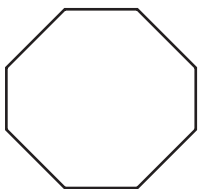
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Human Traces
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Mare Nostrum... Protegat Me!



Acknowledgements



Message from the Director

The Caribbean Fishery Management Council (CFMC) is proud to present: “Essential Fish Habitats of the Deep, Puerto Rico and The U.S. Virgin Islands”.

Written by three distinguished scientists from Puerto Rico; Dr. Graciela García-Moliner, Dr. Roy Armstrong, and Dr. Máximo Cerame-Vivas, it includes discussions on oceanography, recent development of new instruments to study the deep sea, and descriptions of some of the associated fish and invertebrate species, among other topics. Teachers, from high school to university level, as well as the general public, can use the book to learn about the marvels of this realm.

By sponsoring this book, the CFMC intends to create awareness of these important aspects of our seas in order to provide for the understanding that will generate the support—from interested parties and the general public—needed for the management efforts that are directed towards the protection and sustainable use of these valuable marine resources.

The order of the authors goes from the most recent Ph.D. to the oldest. The reason given to me by Dr. Cerame-Vivas is one of the best and most unselfish explanations I have heard from a professor: “I will never put my name in front of my students in any publication.”

It is our wish that the reader of this book will become aware of the beauties of the deep sea around Puerto Rico and the U.S. Virgin Islands, will understand their meaning, and will help support all efforts to protect the essential fish habitats of the deep for future generations.

Saludos,



Miguel Rolón



*To those who toil upon,
cherish, and respect
our fishery resources.*