



Puerto Rico Coastal and Marine Trust Lands and Waters

The Maritime–Terrestrial Zone, Territorial Waters, and Submerged Lands

2010





Puerto Rico

RELEVANT STATISTICS



Emerged land area:	9,497 km ² (3,508 mi ²)
Territorial waters:	9 nm (10.35 stat. mi)
Population:	3.9 million (26 th U.S. largest)
Coastal Zone Population:	2.73 million (70%) 40% urban land area
GDP:	~\$ 56.5 billion/yr
Construction value:	~\$ 6.4 billion/ yr
Industry:	\$25.4 billion (45%)
Tourism:	\$4.1 % billion (7%)
Agriculture:	\$0.7 billion (1%)

Source: PRPB 2007

INFRASTRUCTURE WITHIN 1 KM OF THE COAST



- Eight ports



- Eight airports

- Five power plants

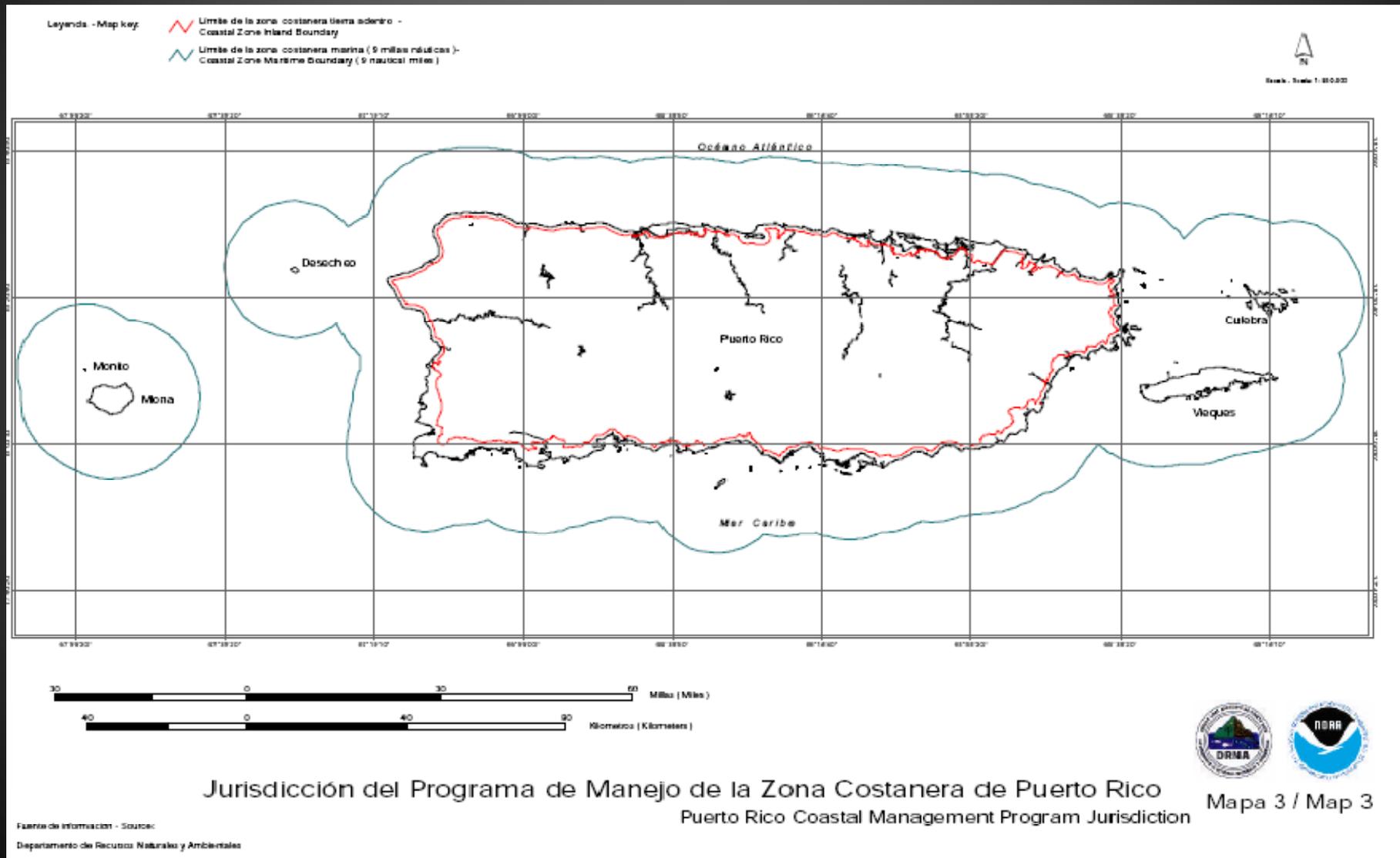
- 1,080 miles of sanitary infrastructure



- 81 Industrial lots

- 114 miles of primary roads

Puerto Rico Territorial Waters:





US Army Corps
of Engineers



FEDERAL AND COMMONWEALTH
JOINT PERMIT APPLICATION
FOR
WATER RESOURCE ALTERATIONS IN
WATERS, INCLUDING WETLANDS,
OF PUERTO RICO



Effective Date of Implementation: October 4, 1999



Government of Puerto Rico
Office of the Governor
PLANNING BOARD





Joint Permit Application

Purpose:

To provide a consolidated process to request relevant permits from the Department of Natural and Environmental Resources (DNER), U.S. Army Corps of Engineers, the Puerto Rico Planning Board (PRPB), and the Environmental Quality Board for the use of water resources with the jurisdictional waters of the United States and Puerto Rico.



DNER PERMITS:

DNER Framework Act (Law 23 of 1972). Article 5 (h) authorizes the Secretary of DNER to:

...exercise surveillance and see the conservation of the maritime-terrestrial zone, territorial waters, and submerged lands and to issue permits and licenses of public character for its use based on existing regulations and associated fees.



DNER PERMITS:

Regulation 4860 (1992)

...establishes the criteria and mechanisms for the delimitation, surveillances, conservation, and control of the maritime zone, territorial waters, and submerged lands beneath them, as well as the criteria for the use of these areas



Regulation 4860:

- Water dependant activities or installations
- Prior to issuing a concession or authorization DNER must ensure that the proposed project has an adequate mechanism to dispose of solid wastes and used waters.
- Environmental impact avoidance, minimization and mitigation.
- The use of beaches shall be public except for those spaces needed to conduct the activity subject to use concession or authorization, and shall provide free public access, except when duly justified reasons of safety, economic or public interest require otherwise.



CZM Federal Consistency

PRCMP lead agency: **DNER**

PRCMP Federal Consistency: **PRPB**

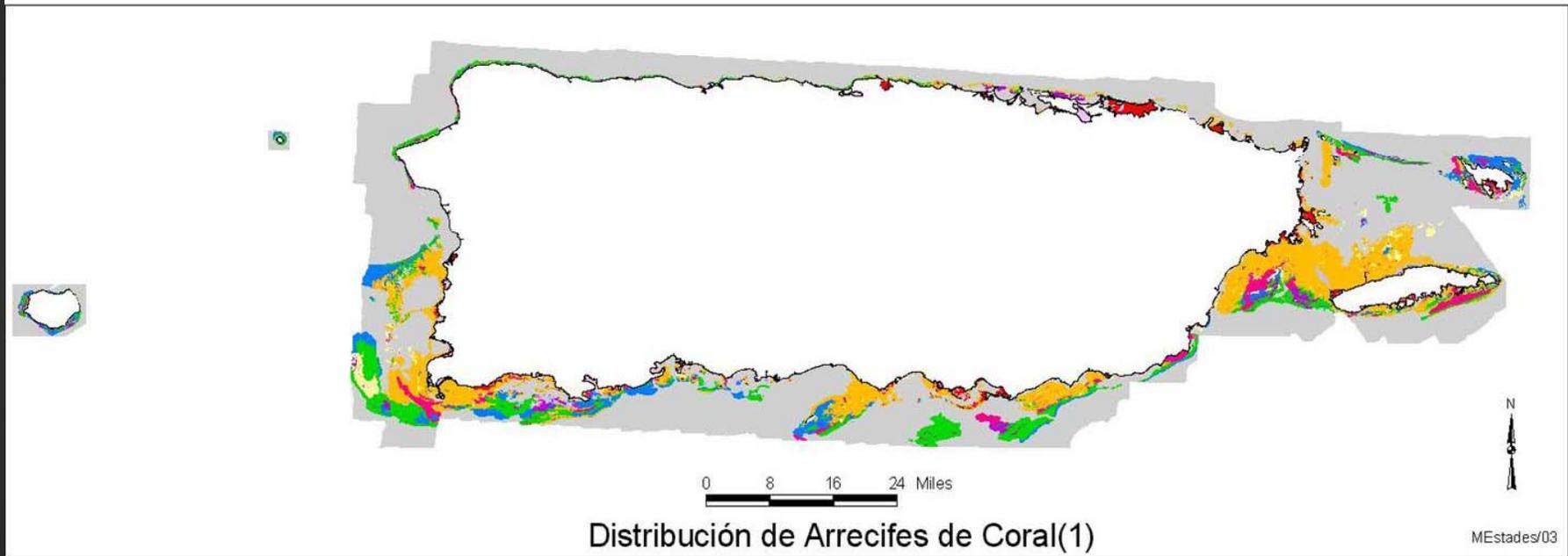
Activities requiring CZ Federal Consistency certification:

- Federally funded
- Federal agency project
- Any project requiring a Federal permit or license located within the Puerto Rico Coastal Zone or that may have direct or indirect impacts on coastal resources.

Coral reefs and seagrasses distribution



Estado Libre Asociado de Puerto Rico
 Departamento de Recursos Naturales y Ambientales
 Programa de Manejo de la Zona Costanera



Leyenda:

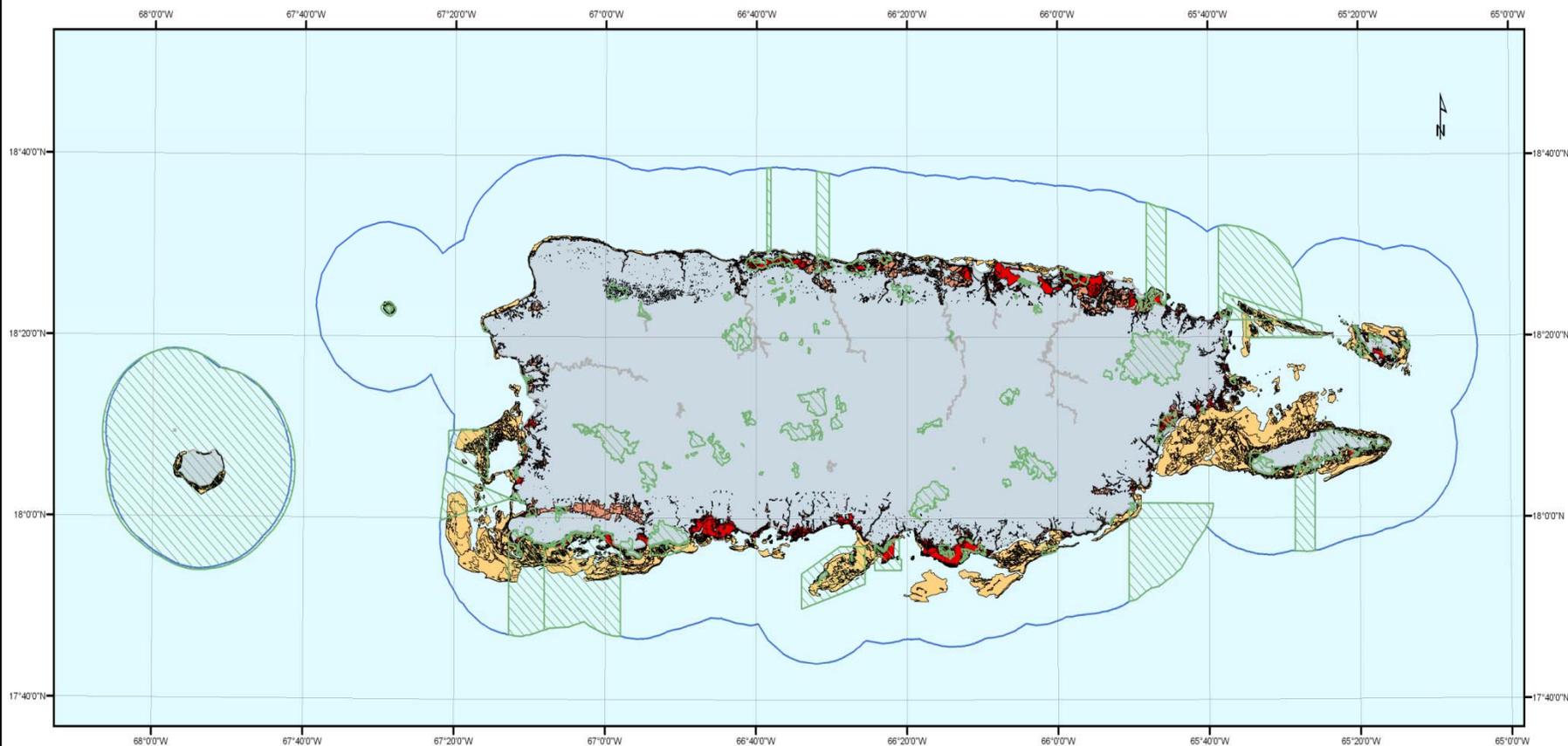
- Artificial
- Colonized Bedrock
- Colonized Pavement
- Colonized Pavement with Sand Channels
- Land
- Linear Reef
- Macroalgae
- Mangrove
- Mud

- Patch Reef (Aggregated)
- Patch Reef (Individual)
- Reef Rubble
- Sand
- Scattered Coral/Rock in Unconsolidated Sediment
- Seagrass
- Spur and Groove Reef
- Uncolonized Bedrock
- Unknown

(1)Fuente: NOAA/NOS

Leyenda - Map key:

- | | | |
|--|--|---|
|  Humedales palustres - Palustrine wetland |  Humedales estuarinos - Estuarine wetland |  Límite de las aguas territoriales de Puerto Rico (9 millas náuticas) - Coastal zone maritime boundary (9 nautical miles) |
|  Áreas Naturales Protegidas - Natural Protected Areas |  Humedales marinos - Marine wetland | |



Fuente de información - Source:
 Departamento de Recursos Naturales y Ambientales
 Wetlands Inventory
 NOAA Benthic Mapping

Humedales protegidos de Puerto Rico Protected wetlands of Puerto Rico

Departamento de Recursos Naturales y Ambientales
 Programa de Manejo de la Zona Costanera





MPA Statistics

- **Total protected areas (land)** **8.24%**
- **Total protected estuarine wetlands** **31.80%**
- **Total protected reefs** **51.49%**
- **Total protected sea grasses** **49.24%**



Coastal and Marine Spatial Planning

... integrated process for collecting information and supporting decision making to balance coastal and marine resources conservation and use, based on ecosystems values, functions, and services.

Current and Potential Uses:

Transportation, Port activities, navigation, fisheries, aquaculture, communications, energy generation, conservation, restoration, homeland security and national defense, among other.



Guiding Principles CMSP



EO 13547 issued by President Obama on July 19th, 2010
Repeals EO 13366 of 2004 and establishes the following
establece guiding principles for coastal and marine spatial
planning:

1. Ecosystems management approach
2. Protect, conserve, and restore
3. Environmental impact minimization
4. Science and knowledge based approach
5. Precautionary principle





CMSP

United States EEZ (≤ 200 nm)

Puerto Rico: Territorial waters: 9 nm
Coastal zone: ≥ 1 km

Caribbean Region CMSP objectives:

- Multiple sustainable use of coastal and marine areas and resources
- Protect Species Biodiversity
- Protect Habitat Diversity
- Conserve key species
- Ensure biological connectivity



Caribbean Region Ocean Partnership



- Federal Funding Opportunity 2010
- Puerto Rico and U.S. Virgin Islands joint proposal to establish the U.S. Caribbean ROP
- Expansion to include BVI and Dominican Republic
- Coordination with CaRA-CariCOOS, CFMC, UNEP Regional Seas, other regional organizations.



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