Port of<br>LONG BEACH THE PORT OF CHOICE



# Port of Long Beach Biodiversity Surveys 

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## Periodic Biological Surveys of the San Pedro Bay

- Joint effort with the Port of Los Angeles
- Conducted $\sim 5$ years $(2000,2008,2013,2018)$

One year of data gathering (over three seasons)

- 18-24 months of identification, analysis, synthesis

1 year of report writing

- Originally developed to assist regulators determine the level habitat mitigation required to develop port land
- Now a detailed timeline that documents the recovery and health of our harbor
- Survey of all harbor habitat types
- pelagic (open water)
- soft-bottom (like eelgrass and sediments)
- hard substrate (riprap and concrete pilings-FIRST TIME!)
- birds, marine mammals, and non-native species



2018 Biological Surveys of the Ports of Los Angeles and Long Beach San Pedro Bay, CA

## Fish Trawling




## California Giant kelp off the Pier J shoreline






3 new abalone species documented

## Cormorants



## The Big Picture

- 2018 survey recorded the greatest diversity of all four survey years, an indicator of the improving quality of our harbor environments and a testament to the Port's water and sediment quality management programs.
- Green Port Policy
- Water Resources Action Plan
- Ballast Water/Vessel Discharge Regs



## - Stormwater Program

- Variety of Outer Harbor habitats (kelp forest, eelgrass, deep channels) promote high species diversity and abundance Non-native species do not appear to be displacing native species

Pollution-sensitive species more common than ever
Eelgrass found in deeper areas of the Inner Harbor, thus showing improved water clarity and quality


